

BUFFALO BLACKSMITH TOOLS



**CATALOGUE
78A**

July

1908

Buffalo Forge Co.

BUFFALO, NEW YORK

Buffalo Portable Forge No. 650 C

The Forge with the Cast-Iron Hood
No Rusting Out of Sheet Iron or Steel



No. 650 C

Price \$54 Without Tank \$50

Fire Pan 28 x 40 inches. Weight 265 Lbs.

Study the Picture

and think of the dollars this forge will earn if placed in your shop. The famous No. 200 Blower, the most powerful firemaker in the world, furnishes the blast. It gives the strongest blast with the least effort, affording a white heat fire in jig time.

This Forge is Guaranteed

for ten years but there is no reason in the world why it shouldn't

Last Longer than a Lifetime

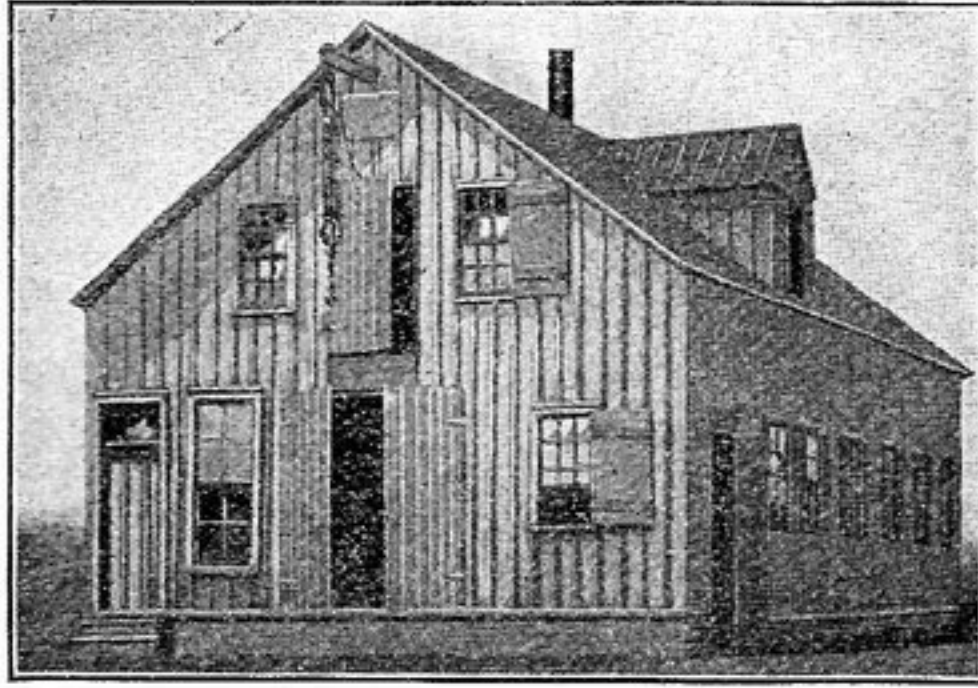
INTRODUCTION

In presenting this catalog, we beg to call the attention of our many friends to the fact that we have included in this issue only the latest and most improved of Buffalo products, together with a few of those old standbys that will always remain in popular usage.

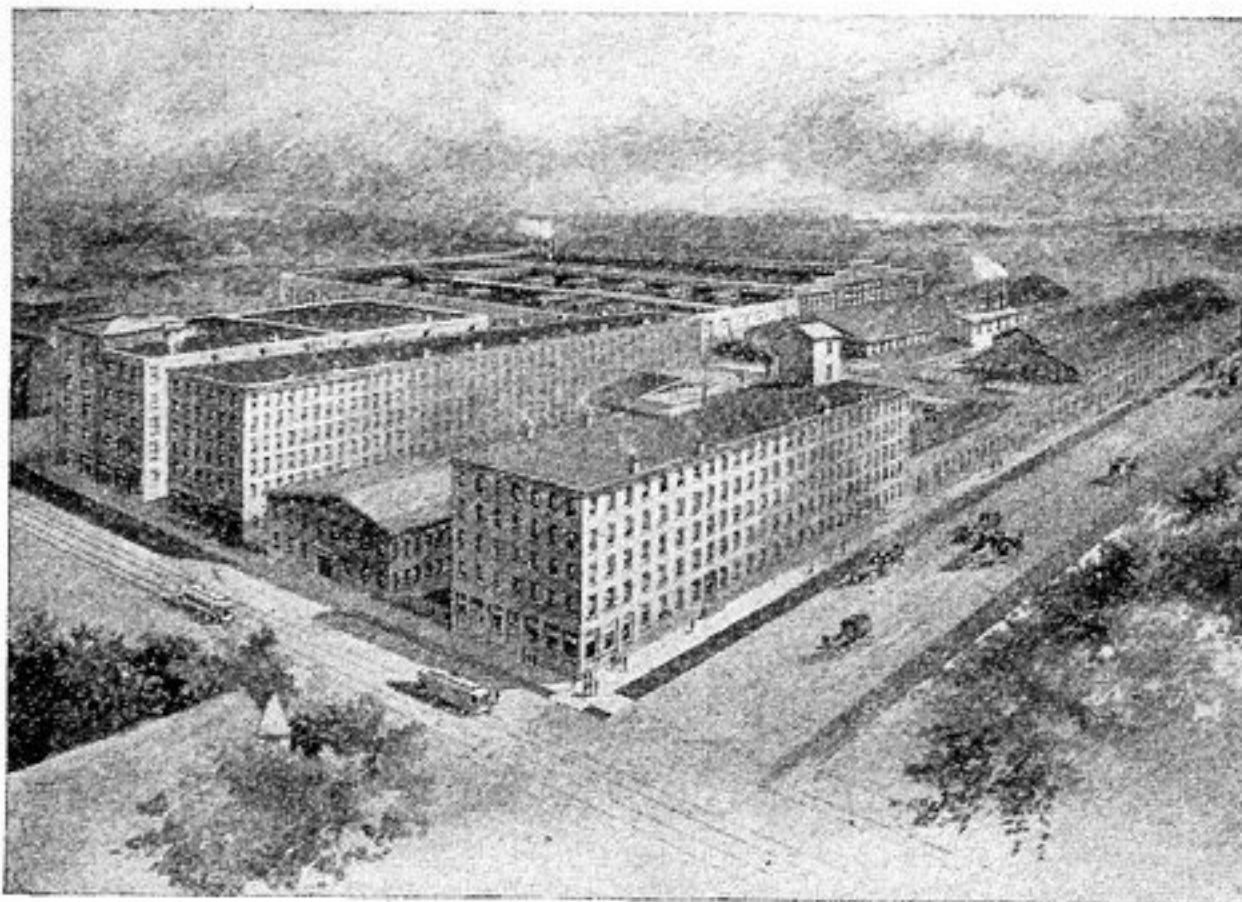
Buffalo stamped on Forges, Blowers, Drills, etc., and backed by the guarantee shown means the best that brains and experience of over 30 years can produce in Blacksmiths' Tools. It is **QUALITY** that has built up the home of **BUFFALO**.

We assure our many customers of our hearty appreciation for their patronage in the past, and solicit a continuance of same in the future.

Respectfully,
BUFFALO FORGE COMPANY.



Home of Buffalo Tools in 1878



**The Largest Plant Devoted to the Manufacture
of Blacksmiths' Tools in the World, 1908**

Buffalo, N. Y., ... 190

Guarantee Certificate

Be it known to every purchaser of a Buffalo Forge, having the 200 blower attached, also to every buyer of a No. 200 Buffalo Geared Blower that these machines are hereby guaranteed against cost of repairs due to wear, for ten years from date of this certificate. Any parts wearing out within ten years will be replaced free of charge, f. o. b. cars Buffalo. Mention the date of this certificate and the style of machine.

The Buffalo Geared Blower No. 200 Series, is also guaranteed to outwear any other on the market, to produce a stronger blast with the same number of turns of the crank per minute, and with less power than any other hand blower built. Run these machines 24 hours per day if you want to, this guarantee holds.



**READ
THIS**



President, Buffalo, N. Y., U. S. A.

Buffalo Improved

More Buffalo Blowers made, sold and
IN USE than all other makes combined

No more hard work for the
Blacksmith. A slow easy turn
of the crank will give

50%

more blast than can be produced
by any other make of blower in
the world.

**Some Reasons Why this
Blower Has No Equal**

Heavy cut Gears
Run in Oil
Enclosed Gear Case
Ball Bearings
Large Journal Bearings
Noiseless

The Deep Fire Tuy-
ere saves COAL,
TIME and LABOR

**LEFT HAND
BLOWER**

**Made Right or
Left Hand**

Do you know of any
Blower on the market
where satisfaction is
guaranteed or its
moneyback on the deal?

Price \$35.00 with Tuyere
" 33.00 without "

Blower No. 200 A

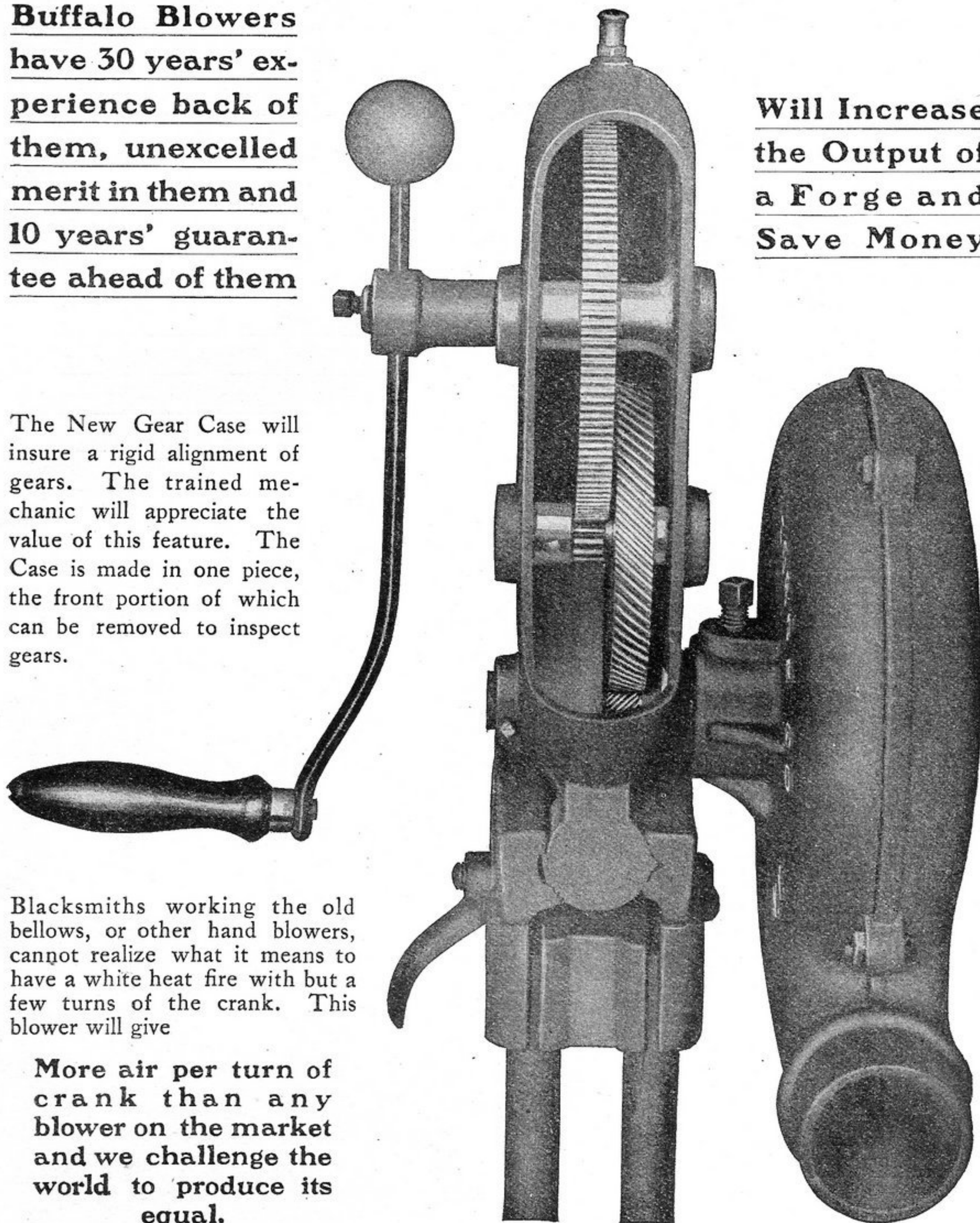
Buffalo Blowers
have 30 years' ex-
perience back of
them, unexcelled
merit in them and
10 years' guaran-
tee ahead of them

The New Gear Case will insure a rigid alignment of gears. The trained mechanic will appreciate the value of this feature. The Case is made in one piece, the front portion of which can be removed to inspect gears.

Blacksmiths working the old bellows, or other hand blowers, cannot realize what it means to have a white heat fire with but a few turns of the crank. This blower will give

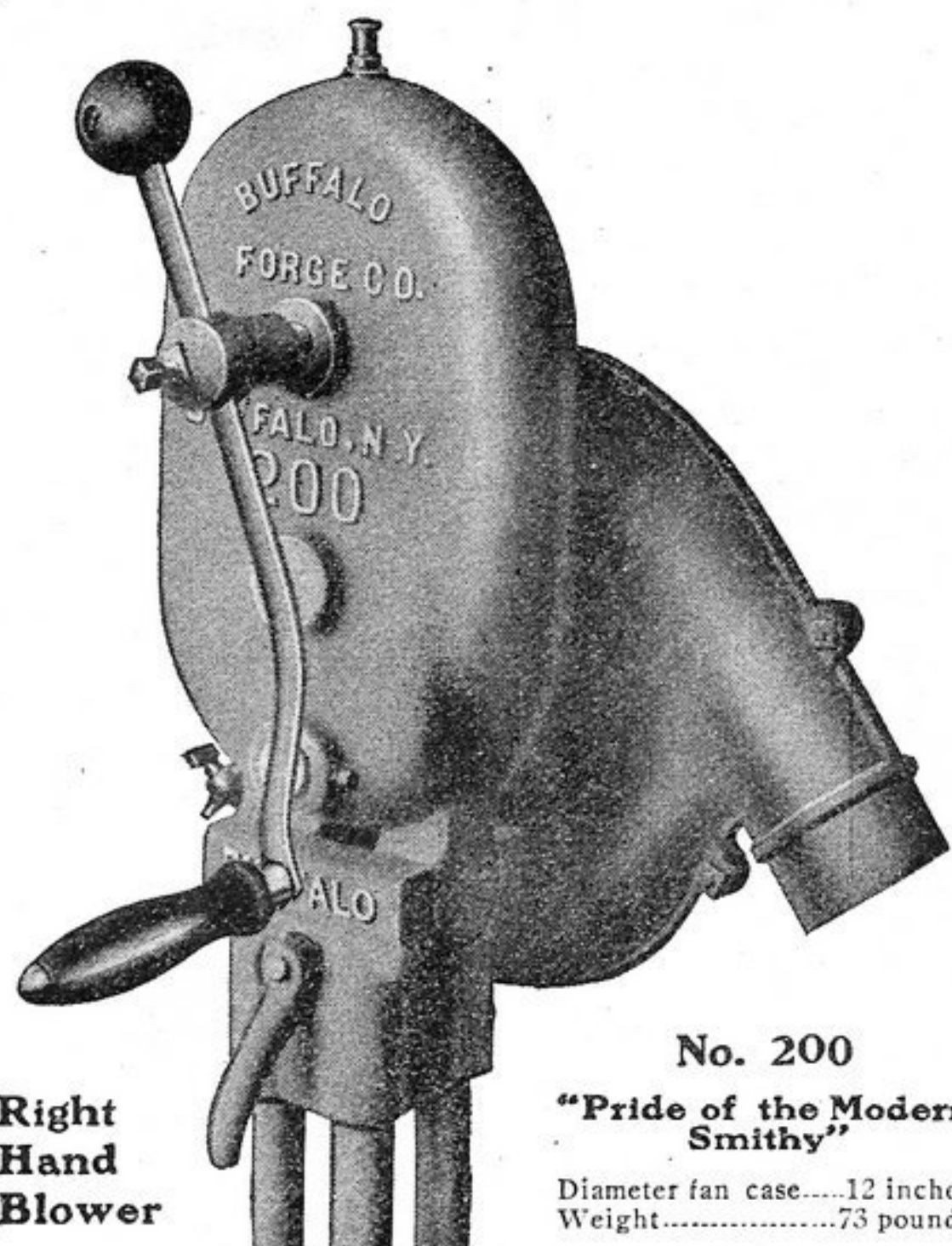
**More air per turn of
crank than any
blower on the market
and we challenge the
world to produce its
equal.**

Will Increase
the Output of
a Forge and
Save Money



Diameter of Fan Case 12 inches
Weight 82 pounds

Buffalo Geared Hand Blowers



Right
Hand
Blower

No. 200

"Pride of the Modern
Smithy"

Diameter fan case.....12 inches
Weight.....73 pounds

Price \$35.00 with Tuyere
" 33.00 without "

Made Right or Left Hand at No Extra Cost

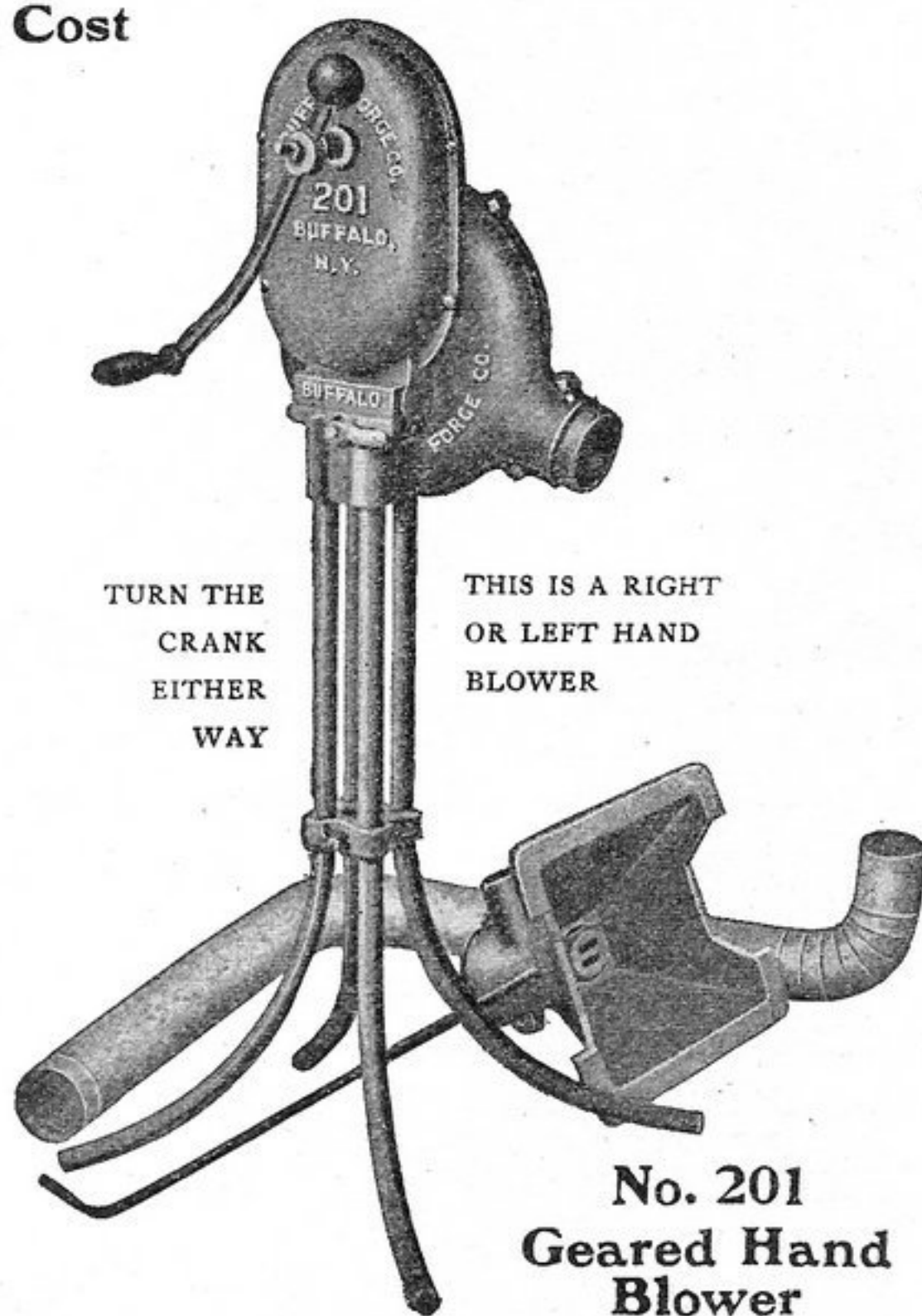
Nos. 200 and 201
Buffalo Blowers

are regularly furnished with four legs. May be
obtained with three legs, or on single column
stand, on special order, at no extra cost.

Don't be Misled.
"BUFFALO"
is the kind to buy

Thousands of Blowers Sold
30 Years Ago are Still in Good
Working Order

Read the Guarantee Printed
on the First Page that goes
with Every No. 200 Blower
and Forge having the
No. 200 Blower Attached



TURN THE
CRANK
EITHER
WAY

THIS IS A RIGHT
OR LEFT HAND
BLOWER

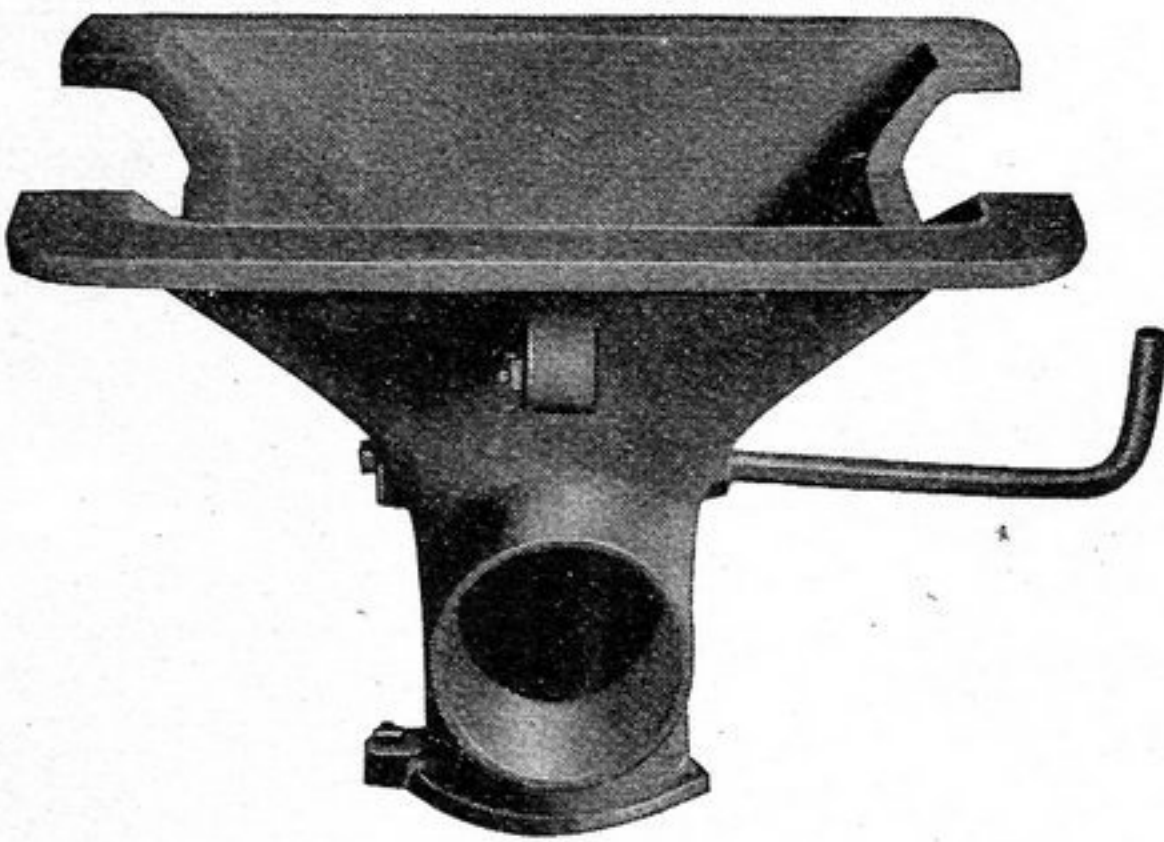
No. 201
Geared Hand
Blower

Price \$35.00 with Tuyere
" 33.00 without "

Diameter of Fan Case.....12 inches
Weight.....82 pounds

Buffalo Practical Deep Fire Anti-Clinker Tuyere Iron

No Waste of Coal. Increases Output of Fire
Clean Strong Fire. Saves Cost in a Few
Months. Depth of Fire Easily Controlled



Style A
No. H. H. Tuyere
11 x 9 x 4
Price \$5.00



Style B Tuyere with Wings
11 x 9 x 6
Net Extra \$.75

The Tuyere Ball has three openings. It can be revolved to direct the air where desired, and the construction of same gives the air a WHIRLING CYCLONE EFFECT, which produces the required fire for all classes of work.

Don't be deceived by substitutes.
Insist on BUFFALO and at the
right price, or send to us direct

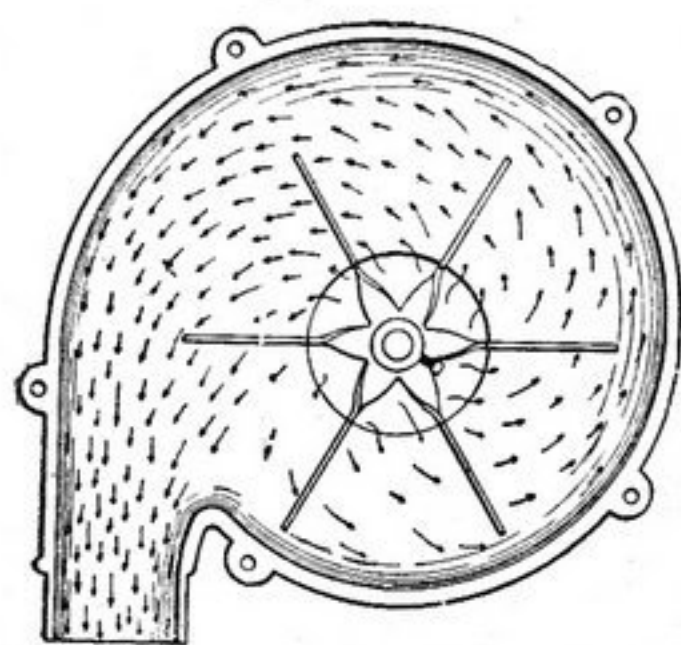
Why Buffalo Blowers Give the Strongest Blast with the Least Effort

The scroll shaped fan case distinguishing the No. 200 Buffalo Blowers has been adopted only because of its proven efficiency in delivering the most powerful blast. This advantage is made clear by the illustrations herewith which show the course of air currents in both the scroll shaped and pear shaped fan cases.

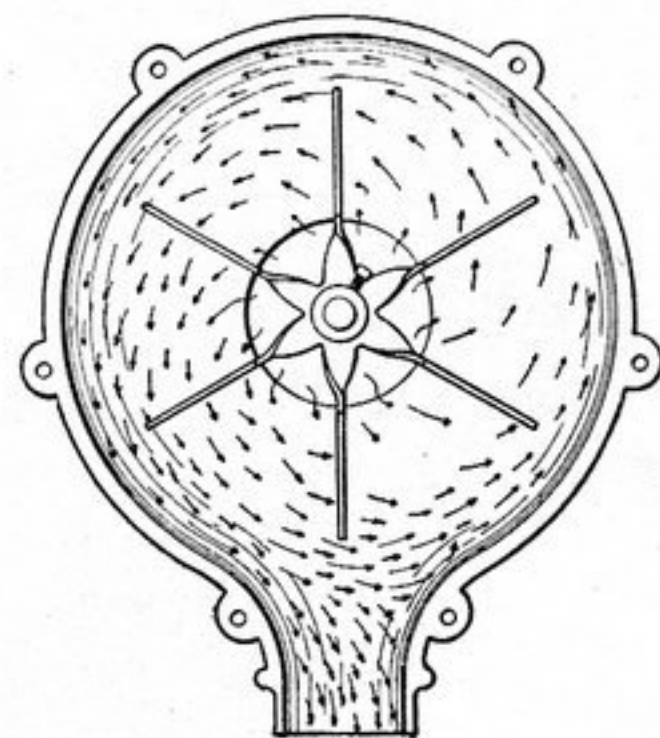
Which One Looks Best to You?

The outlet of the scroll shaped case is right in the path of the air currents,

affording the easiest means of escape. All the air produced with each turn of the fan is delivered through the outlet—a fact that is not true of other fan cases in which much air is carried past the opening and forced around the fan case a second time.



The BUFFALO Way



The OTHER Way

March 14, 1908.

Comparison of Hand Blowers

Pressure delivered by No. 201 Hand Blower at tuyere, out at the end of the line.....	100%
Pressure delivered by No. 200 Hand Blower	123%
Pressure delivered at tuyere by No. 200 Hand Blower connected up with two elbows	117%

Blowers delivered about 45 cubic feet per minute with 57 turns of the crank.

**All Buffalo Blowers made and designed from
best results of 30 years' practical experience**

**More Buffalo Blowers made, sold and IN USE than all
other makes combined**

Buffalo Direct Drive Blowers



No. 202

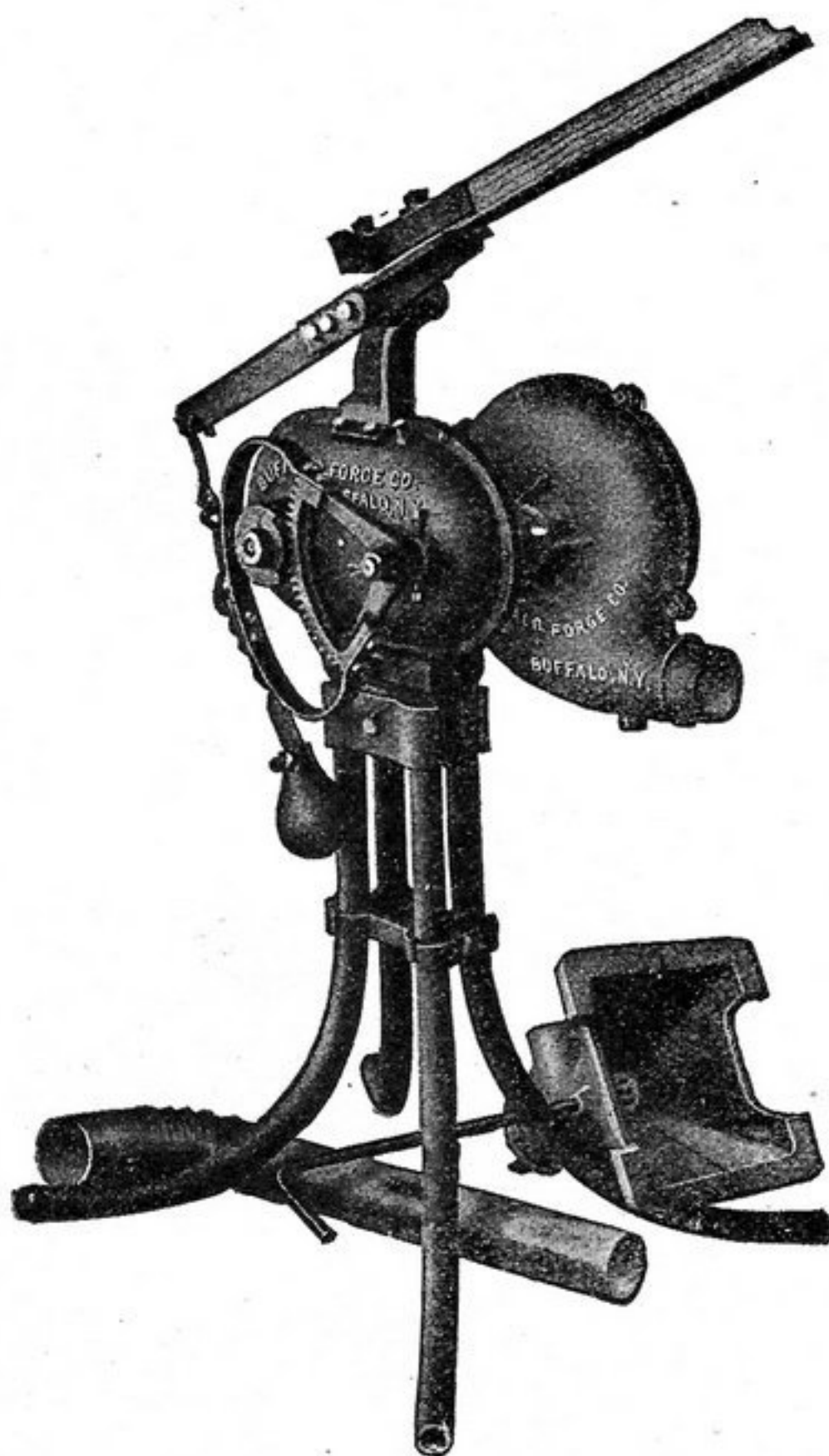
Price, with Tuyere, Blast Gate and Bracket, \$44.00

Prices of Motors on Application
Diameter Fan 12 Inches.
Weight 85 Lbs.

This **FIRST** and **ONLY** Direct Drive Lever Geared Blower combines all the features of the Buffalo No. 200, together with the lever motion which is still a favorite with many smiths. All parts are interchangeable. Nothing to get out of alignment, no belts to slip and break.

Insist on Genuine Buffalo made machines. See that NAME IS CAST ON.

This blower may be operated either by electric or hand power, a bracket being provided for the motor. Any make of motor may be used. A twitch of the switch and the blast is on ready for the heaviest or the lightest work within range of a blacksmith blower or forge. Construction same as Buffalo No. 200. When **ordering** state if current is alternating or direct, if alternating give cycles; also voltage.



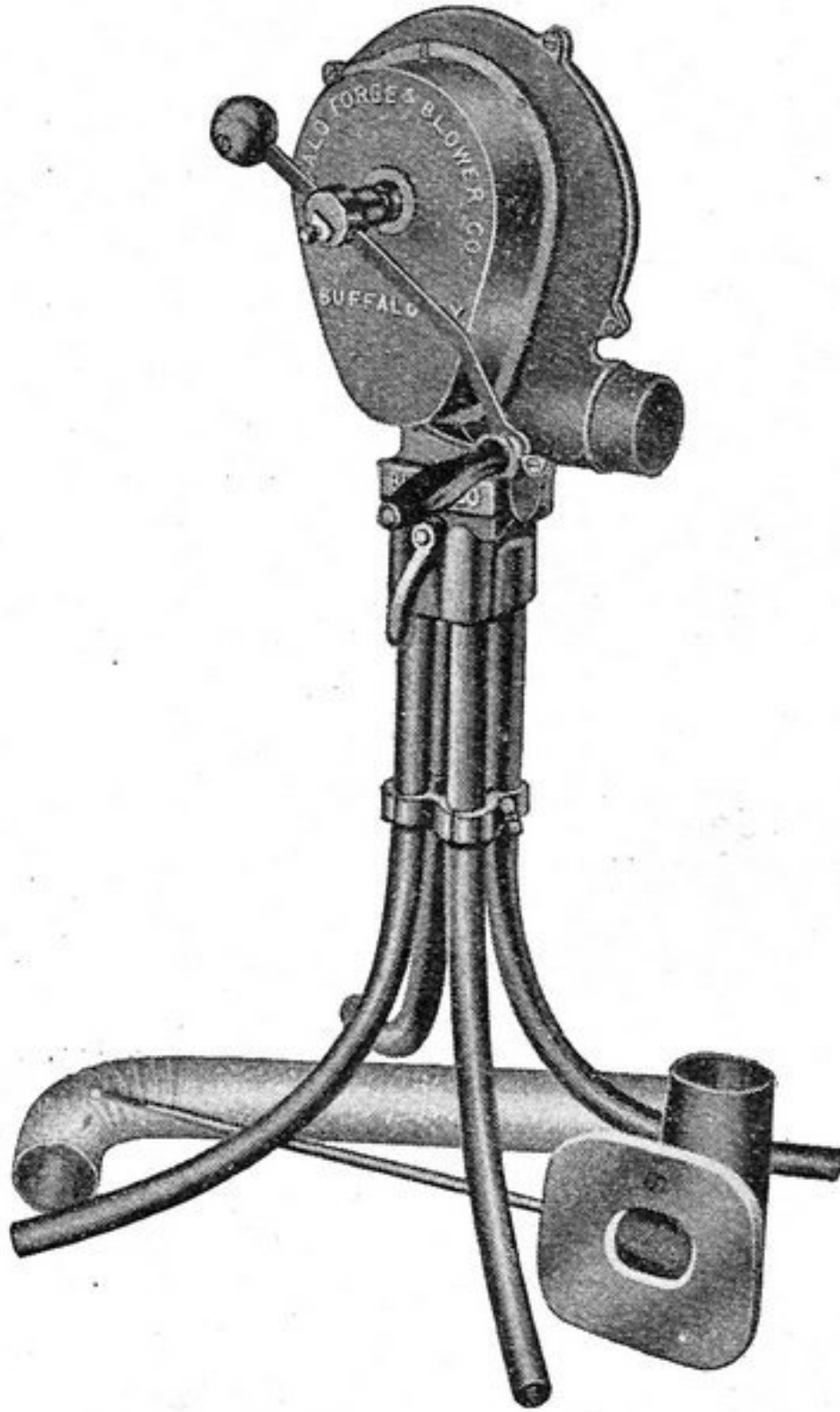
No. 306

Price without Tuyere \$33.00

Price with Tuyere \$35.00

Diameter Fan 12 Inches. Weight 116 Lbs.

Buffalo Hand Blowers



No 99

Price without Tuyere \$30.00

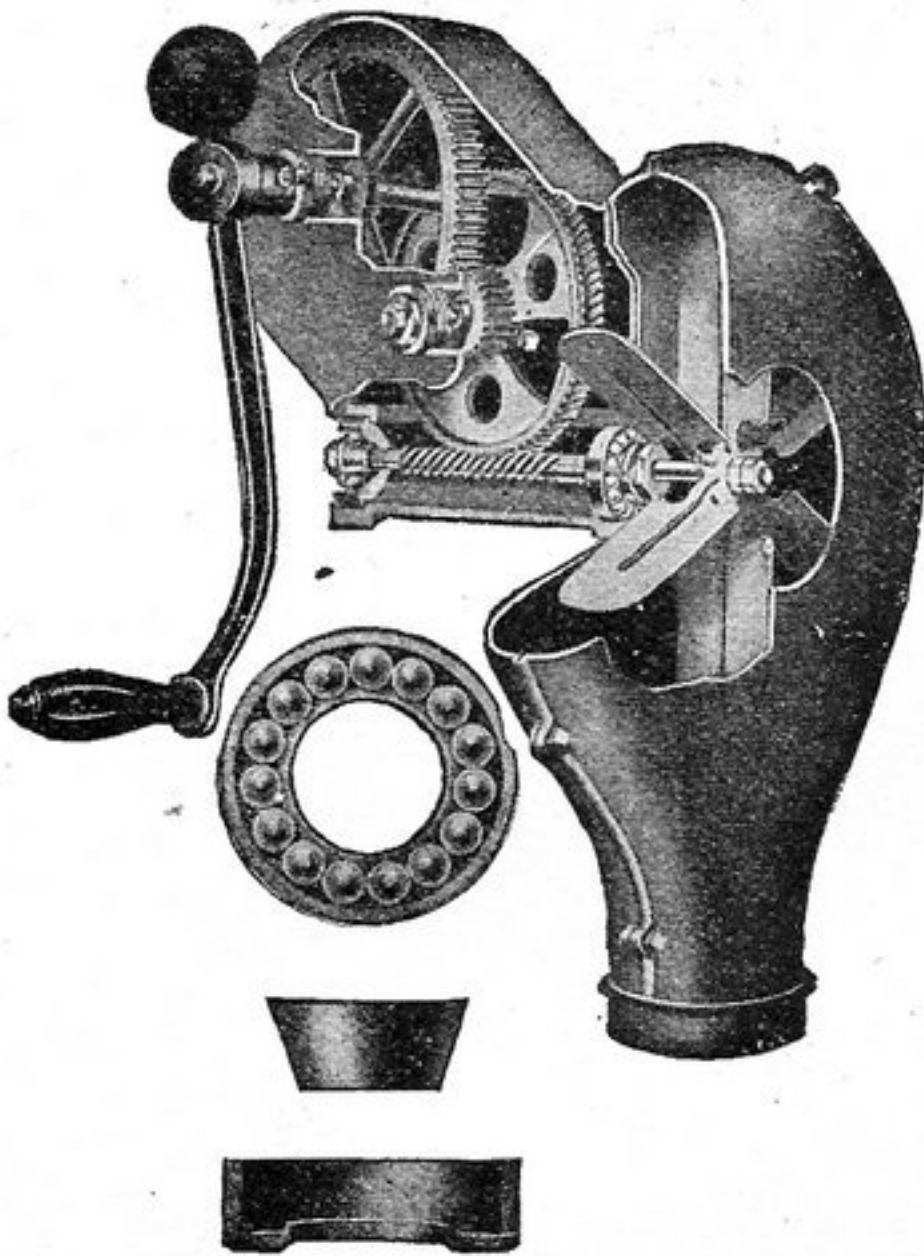
Price with regular Tuyere \$32.00

Price with side and center-blast tuyere

No. H. H. \$34.50

Diameter of Fan 12 inches

Weight 80 pounds

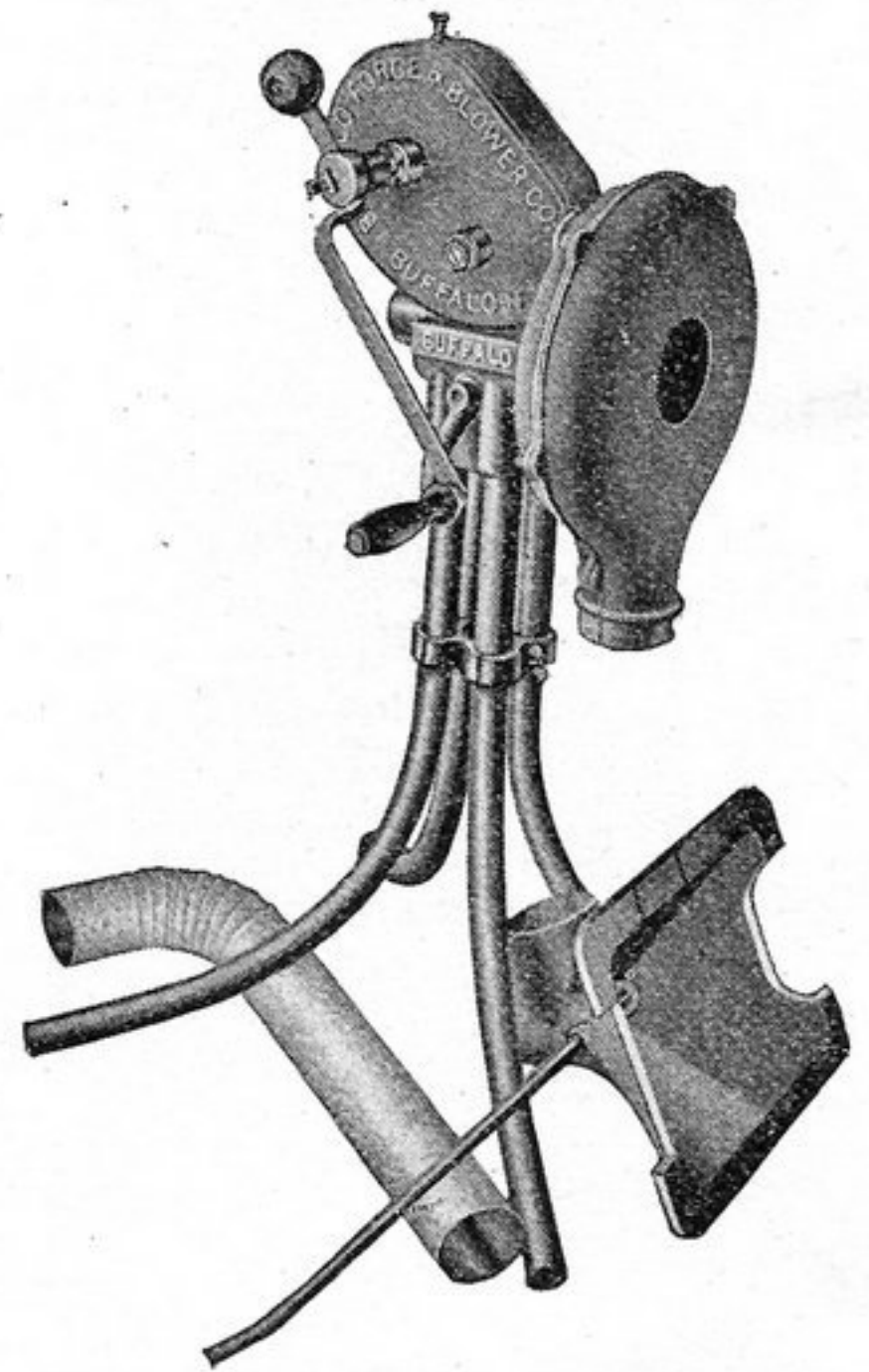


It's the Spiral that Does the Work

**Buffalo
Blowers
Guaran-
teed
Ten
Years**

**Guaran-
teed
Noiseless**

Buffalo No. 99 has a fan spindle driven by a helical spur gear which assures a smooth and noiseless running. Four simple gears, running in oil in a dust proof case speed up the fan to give the strongest possible blast with the greatest ease of operation. On special order, this blower will be supplied with a single-column cast-iron stand without extra cost. On special order will be supplied with fan case of special shape so that crank may be turned in either direction.



No. 206

Price without Tuyere \$35.00

Price with H. H. Tuyere \$37.00

Diameter of fan 12 inches

Weight 85 pounds

In the Buffalo Geared Hand Blower No. 206 the cut spur and spiral gearing is made from the finest hardened phosphor bronze and Swiss steel, as are also the ball bearings. They are carefully ground and polished to the most accurate dimensions, insuring noiseless running and long life. The blast is equally strong when the handle is turned in either direction.

Buffalo Portable Forges

"The Rivet Forge"
A Money Saving
Money Earning Forge



Guaranteed better
than any other make.
Guaranteed to cost
less than the best
of any other make.

This forge represents the best that brains and practical ability can conceive. It is the outcome of years of study to find just the kind of forge for structural iron workers and builders of bridges and railroads. Wherever outdoor work requires the use of a forge, this portable model will give the most satisfaction. It requires little or no attention and can readily be carried about by one man.

Construction

Gears, fan case, fire-pan, standard and legs are detachable and may be assembled in two minutes. The gears run in oil in a dust-proof and weather-proof case. A deep fire-pan and strong fire-blast fit it especially for rivet-heating. Made of heavy sheet steel it is practically indestructible. Equipped with No. 200 Blower.

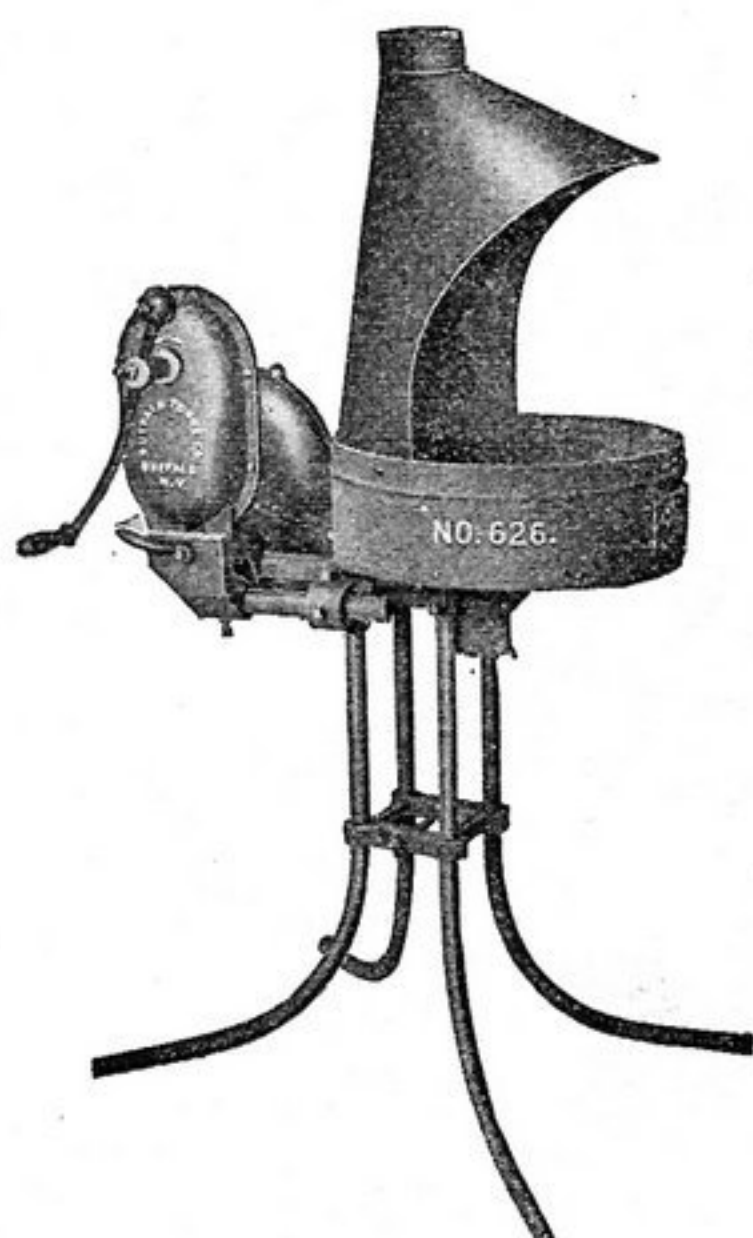
No. 625
Price \$35.00

No.	Hearth	Weight	Price	WITH HALF HOOD				WITH CLOSED HOOD			
				No.	Hearth	Weight	Price	No.	Hearth	Weight	Price
625	18 in.	110 lbs.	\$35.00	626	18 in.	120 lbs.	\$38 00	627	18 in.	130 lbs.	\$40.00
625A	22 "	120 "	38.00	626A	22 "	130 "	43 00	627A	22 "	140 "	45.00
625B	24 "	130 "	41.00	626B	24 "	140 "	45.00	627B	24 "	150 "	50.00

42 inches high over all. All measure 32 inches to top of fire pan. Diameter of fan case 12 inches.

No. 628 is the same as No. 625, with a circle of angle iron connecting the tips of the four legs.

Buffalo Geared Rivet Forges



No. 626

Price \$38.00

Diameter of fan 12 inches
Size of fire pan 18 inches
Weight..... 120 pounds

No. 628 is similar to No. 625, with a circle of angle iron connecting the tips of the four legs. Price \$37.00.



No. 260

Price \$35.00

Diameter of fan 12 inches
Size of fire pan 18 inches
Weight..... 115 pounds

This Spiral Geared Rivet Forge is equipped with the No. 206 Geared Hand Blower.

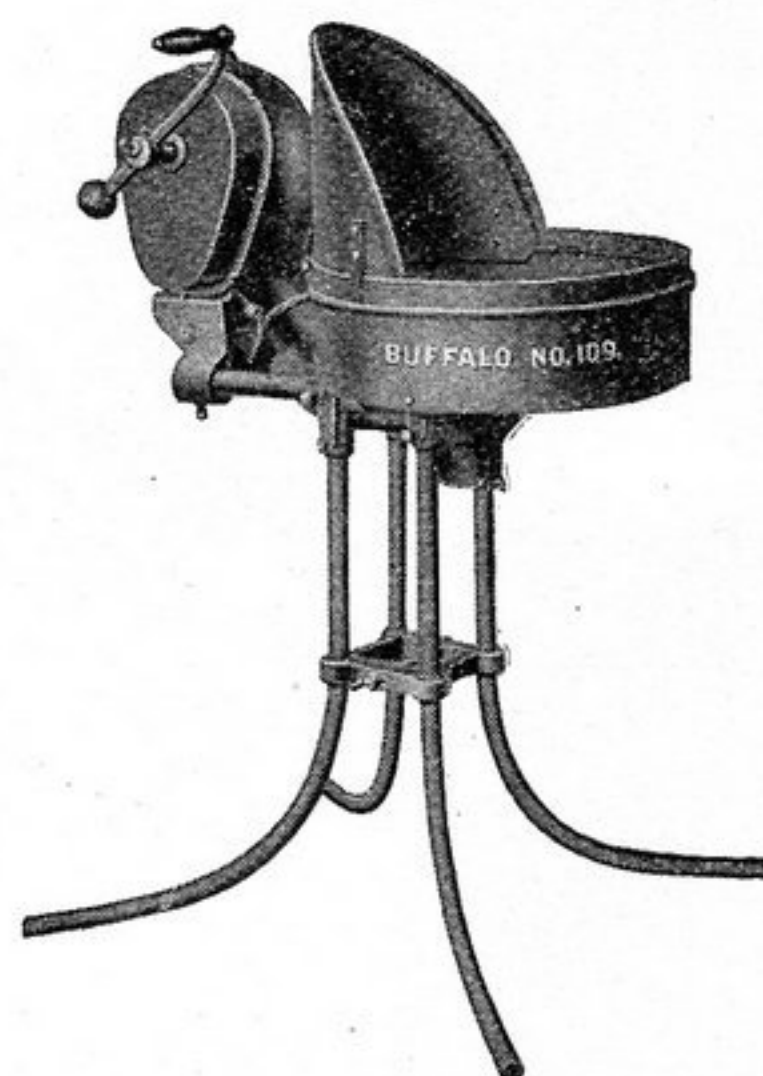


No. 131

Price \$27.00

Diameter of fan..... 12 inches
Size of fire pan 22 inches
Weight 80 pounds

Just the machine for rough handling and outdoor work.



No. 109

Price \$35.00

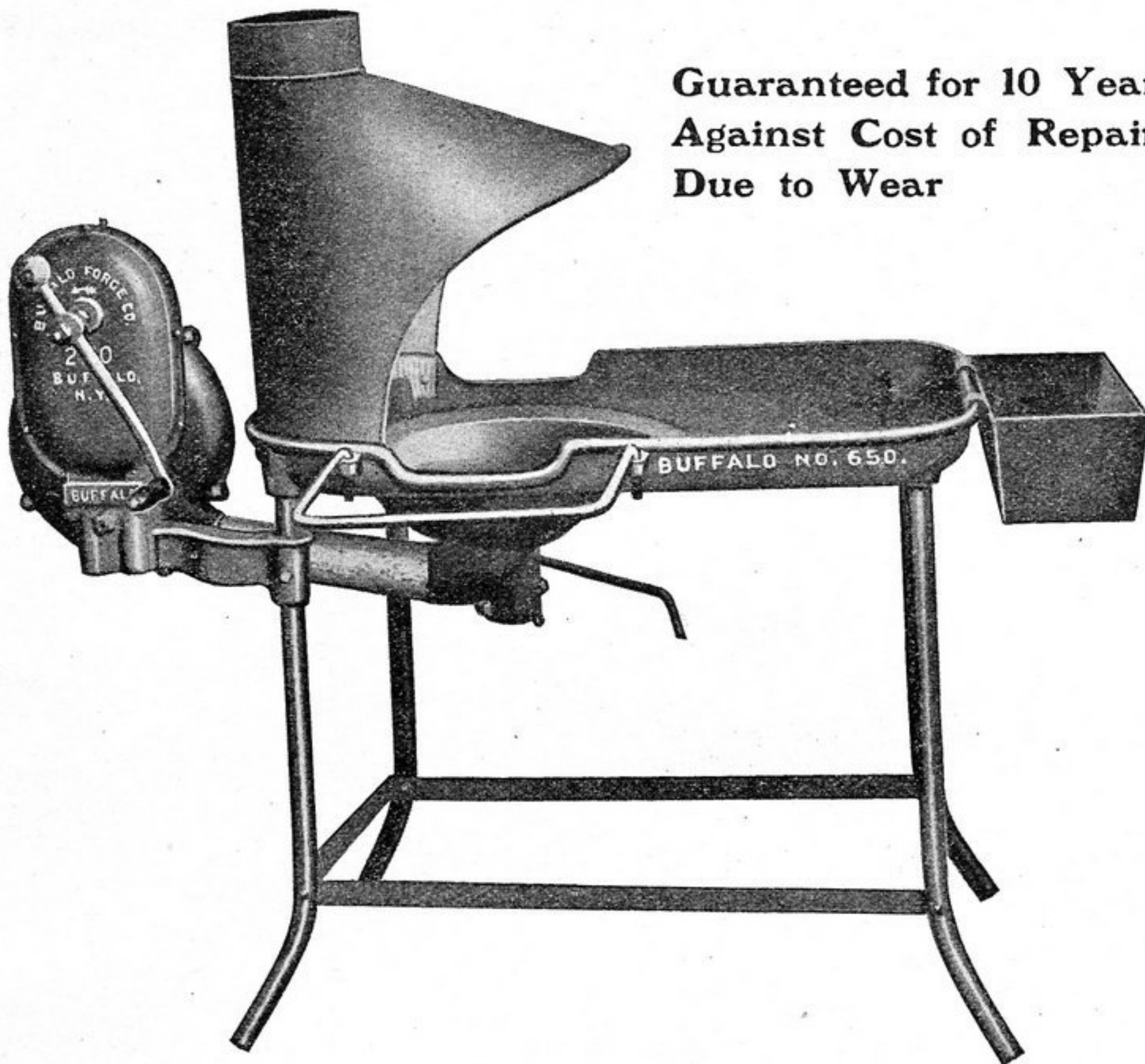
Diameter of fan..... 12 inches
Size of fire pan 18 inches
Weight..... 120 pounds

Equipped with Buffalo Blower No. 99. A most efficient Forge for in or outdoor service.

Buffalo Portable Forge No. 650

**The Forge that Pleases the Smith
Fitted with a Buffalo 200 Blower**

The greatest value in forges ever offered to blacksmiths. It is the highest type and **most practical cast iron forge built**, and will save dollars in coal and increase the quality and quantity of work.



**Guaranteed for 10 Years
Against Cost of Repairs
Due to Wear**

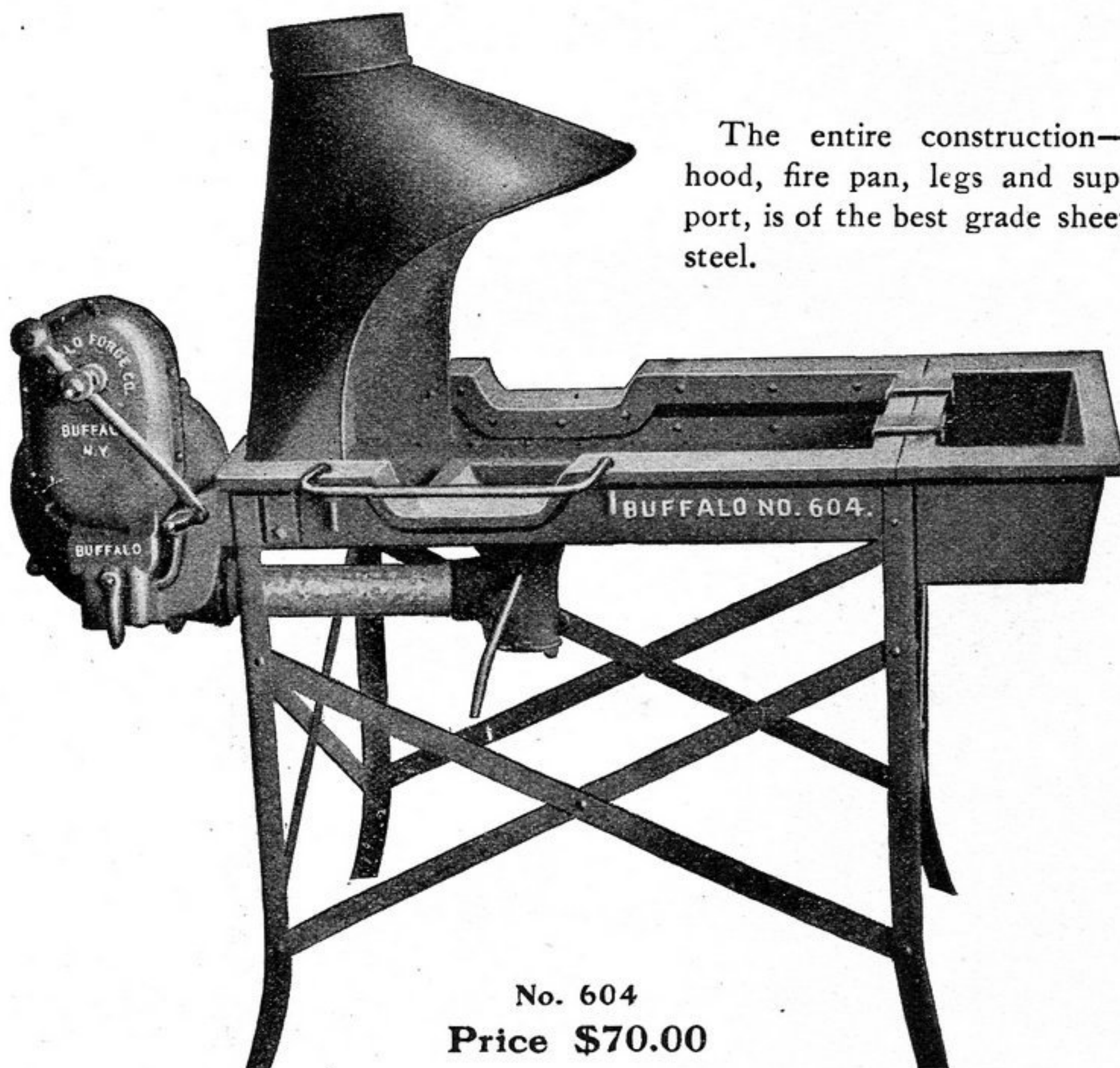
No. 650
Price, \$50.00 With Water Tank, \$54.00

Size of Fire Pan	28x40 inches
Diameter of Fan	12 inches
Weight	265 pounds

This forge is designed for a **modern blacksmith shop**. **Neat and graceful** in design. **Strong, powerful, durable**. Has **deep tuyere pot**. Is adapted for **heaviest** kind of **work**. Will **heat quicker** and with **less power** than **any** other design of **forge made**.

Buffalo Steel Plate Forge No. 604

Equipped with the Famous No. 200 Blower
and the No. H. H. Deep Fire Tuyere Iron
GUARANTEED FOR TEN YEARS
It's What Buffalo Tools Save that Counts



The entire construction—
hood, fire pan, legs and sup-
port, is of the best grade sheet
steel.

No. 604
Price \$70.00

No. 605, size 30x40, weight 225 pounds, price	\$75.00
No. 604, " 30x36, " 200 " "	70.00
No. 603, " 30x30, " 190 " "	65.00
No. 601, " 24x24, " 170 " "	50.00
No. 605, without water tank	70.00
No. 604, " " "	65.00
No. 603, " " "	60.00
No. 602, size 603 without tank	55.00
No. 600, " 601 " "	45.00

One enthusiastic blacksmith using a No. 604 Buffalo Forge writes: "I find that this forge not only burns less coal than my old one, but it also burns every ounce I feed her." This is evidence from a man who knows—and there are thousands who can tell the same story.

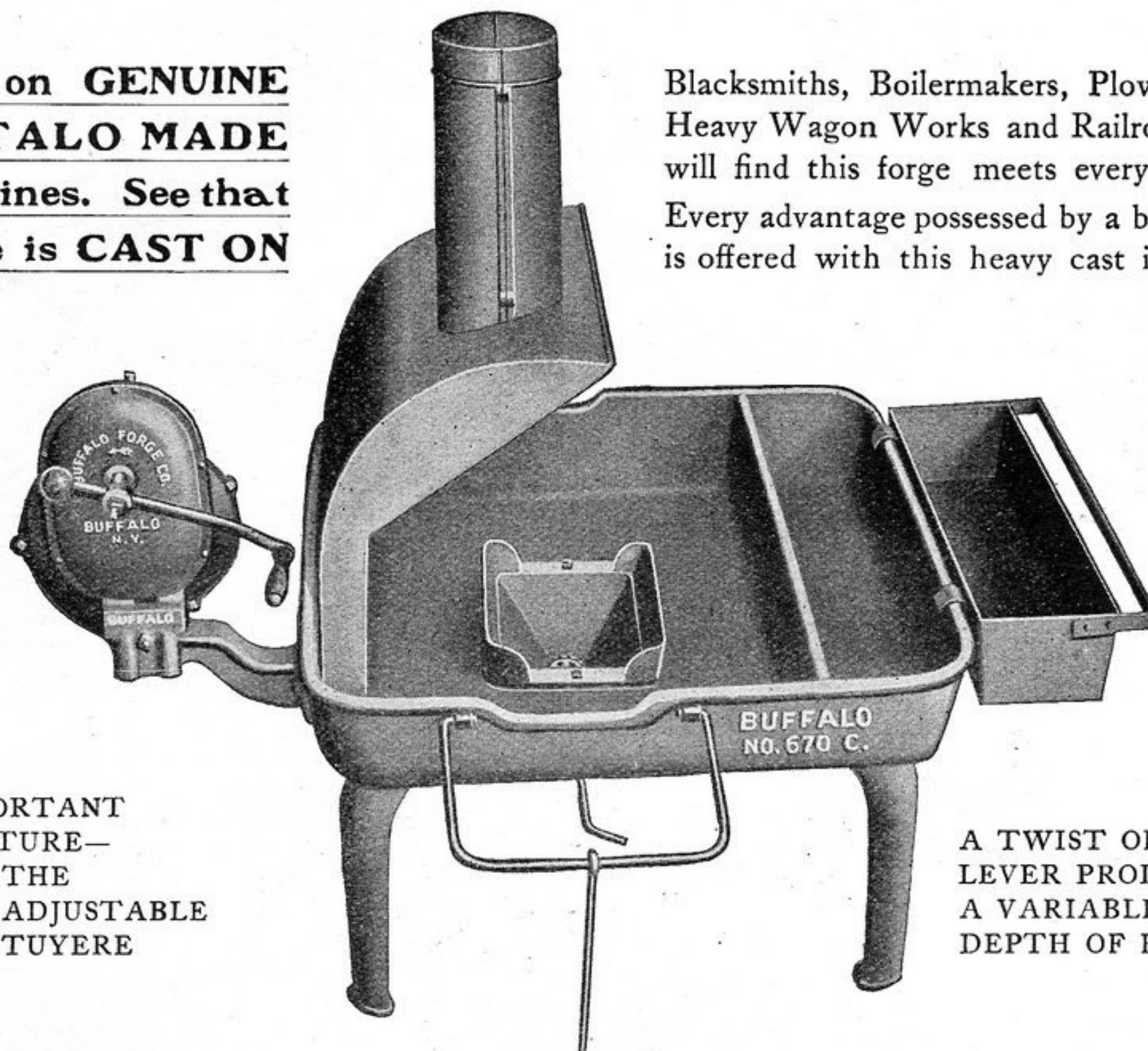
Buffalo Blacksmiths' Forge No. 670 C

THE LARGEST HAND POWER FORGE MADE

The Low Deep Fire Pan and Powerful Blast give this Forge a Capacity for all Kinds of Work

**Insist on GENUINE
BUFFALO MADE
machines. See that
name is CAST ON**

Blacksmiths, Boilermakers, Plow Works,
Heavy Wagon Works and Railroad Shops
will find this forge meets every demand.
Every advantage possessed by a brick forge
is offered with this heavy cast iron type.



IMPORTANT
FEATURE—
THE
ADJUSTABLE
TUYERE

A TWIST OF THE
LEVER PRODUCES
A VARIABLE
DEPTH OF FIRE

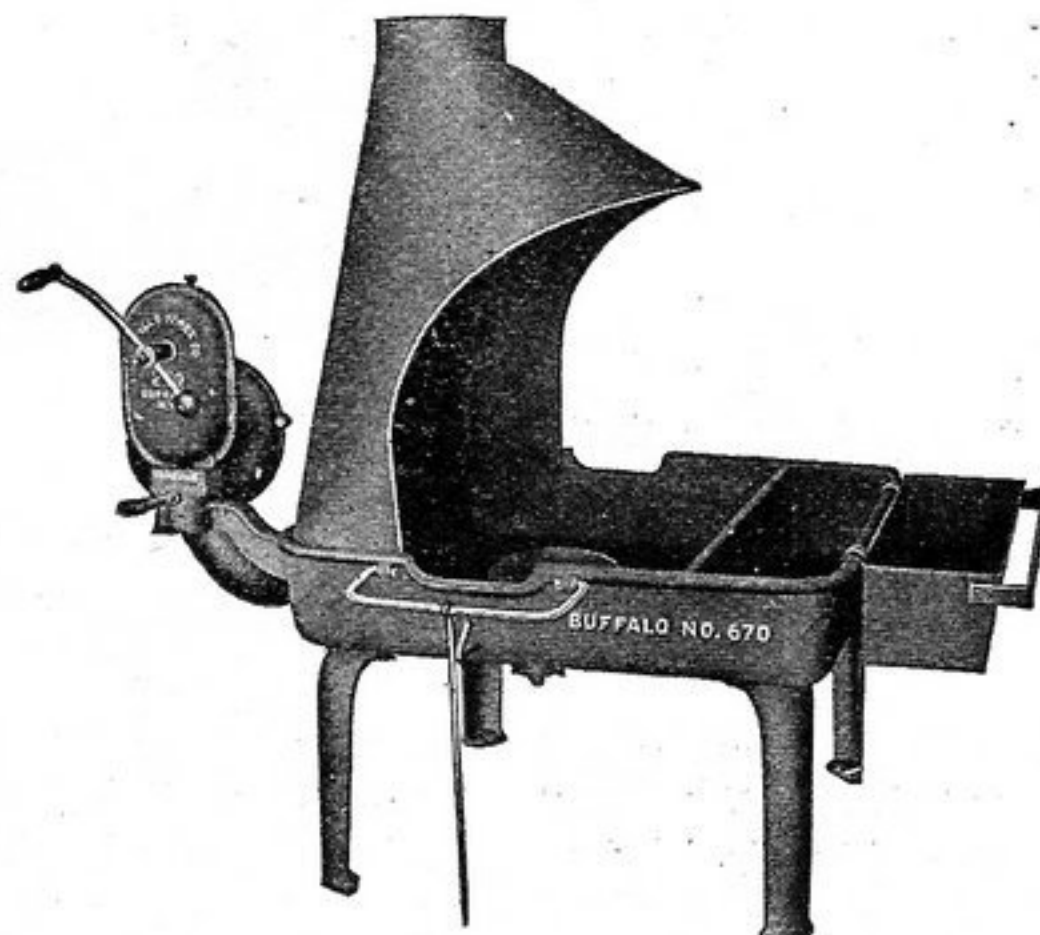
No. 670 C

Price \$84.00, With Cast Iron Hood

Size of Fire Pan	38x42 inches
Size of Water Tank	28x9x6½ inches
Weight	500 pounds

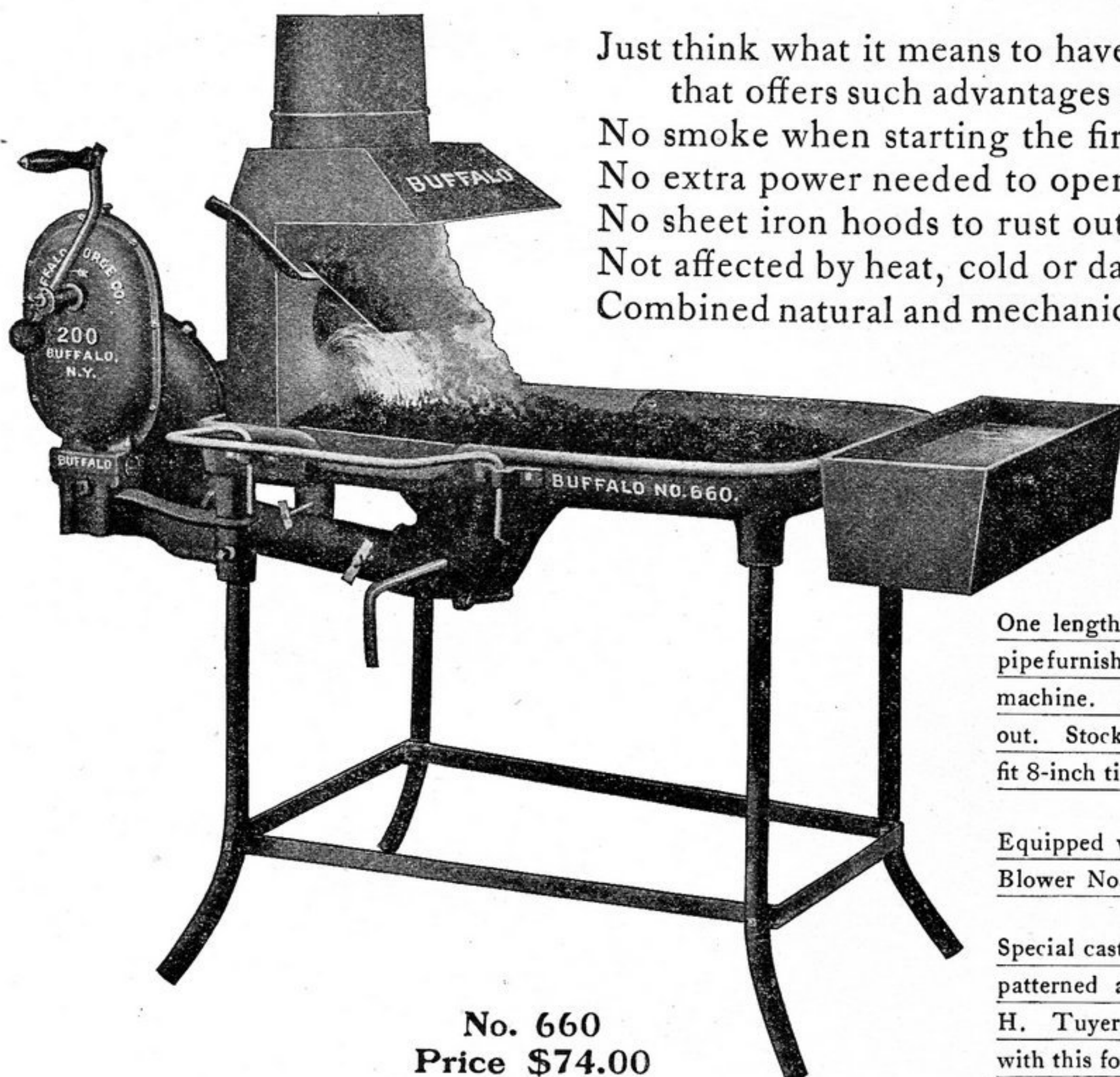
To provide a blast sufficient to give the hottest kind of a fire, we have included in this outfit, the powerful No. 200 Buffalo Blower. The No. H. H. Deep Fire Tuyere iron is supplied with this forge. The upper wings are removable, intended for extra deep fire.

No. 670 is similar in size to No. 670 C Forge, but with a hood which is made of sheet steel. :: :: **Price \$80.00**



No. 670 Blacksmiths' Forge

Buffalo Portable Down Draft Forges



Just think what it means to have a forge that offers such advantages as these.
 No smoke when starting the fire.
 No extra power needed to operate.
 No sheet iron hoods to rust out.
 Not affected by heat, cold or dampness.
 Combined natural and mechanical draft.

One length of cast iron pipe furnished with each machine. No rusting out. Stock is made to fit 8-inch tile pipe.

Equipped with Buffalo Blower No. 200.

Special cast iron tuyere patterned after the H. H. Tuyere furnished with this forge.

No. 660
Price \$74.00

Complete with water tank and one length cast iron pipe.

Price without Tank to fit 8-inch tile pipe, \$70.00

Latest advance in blacksmith forge construction. All smoke and gas instantly removed. Heavy cast-iron construction. The outfit will last a life time.

The down-draft supplies the fire with hot blast and reduces the cost of fuel $33\frac{1}{3}$ per cent. By the return of heated gases all the carbon and oxygen are consumed.

Operation

When first starting your fire close partly blast gate in pipe leading to tuyere; the heavy smoke and gases from the fresh fire will then be conveyed back through the fan and forced up the stack, overcoming the down draft usual in a cold stack. A minute or two, thus operated, will permit opening blast gate. The exhaust connection will then take care of all smoke and gases generated, whether you keep same in continuous operation or not. For extra heavy work, if you want to increase the blast, close blast gate in blast pipe leading to hood.

Cast-iron fire pan.....	28x40 inches
Height to top of fire pan	32 inches
Shipping weight.....	330 pounds

(Fully Protected by Patents)

Buffalo Portable Down Draft Forges

Bright, clean, healthy shops
Keep shops free from smoke
and noxious gases. Down
Draft Fire saves coal,
increases efficiency, etc.

When start-
ing a Fire
the Smoke is
Forced into
the pipe—not
all over the
room



No. 666
 Price \$90.00

Complete with water tank and one length of cast iron pipe.

Price without Tank, \$86.00

The same features that characterize Buffalo No. 660 also distinguish this model. If for no reason other than the **“down draft feature”** this forge recommends itself to the blacksmith. All parts of this forge are built of steel plate with the exception of the cast iron hood.

**Will Do Heaviest Kinds of
 Work At Less Cost for Labor**

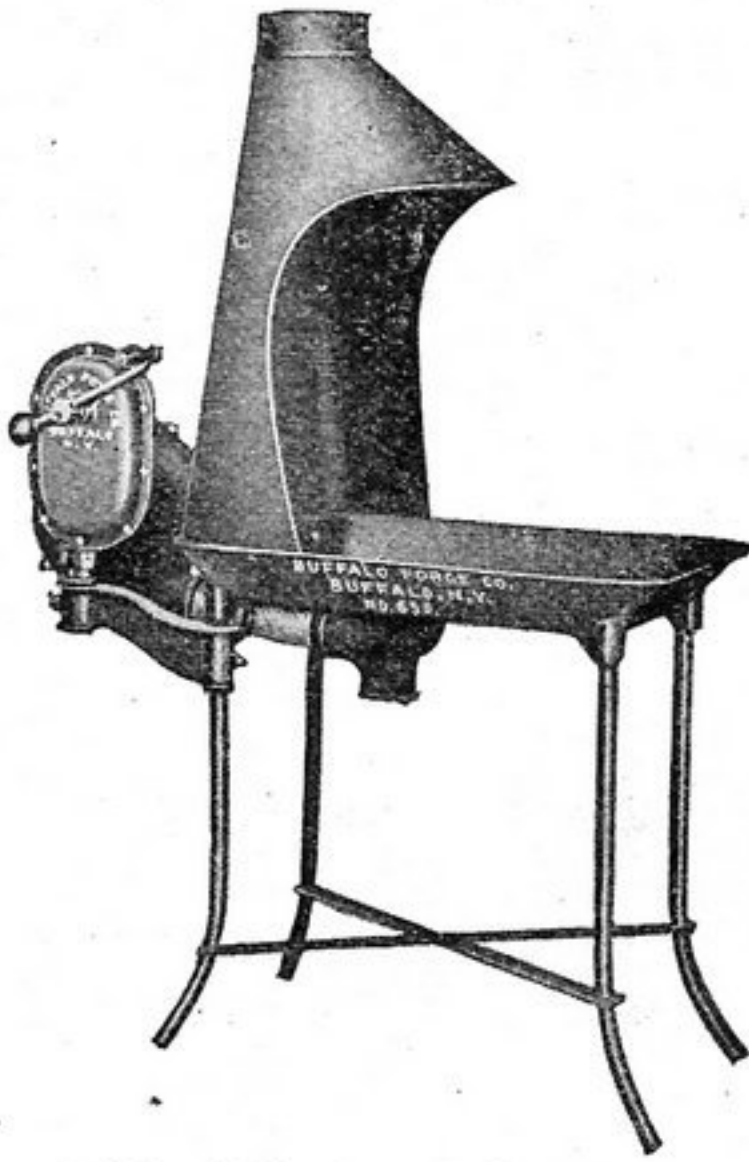
Guaranteed Ten Years

Height to top of fire pan	33 inches
Steel plate fire pan	30x36 inches
Depth of fire pan	6 inches
Shipping Weight	250 pounds

(Fully Protected by Patents)

Buffalo Portable Forges

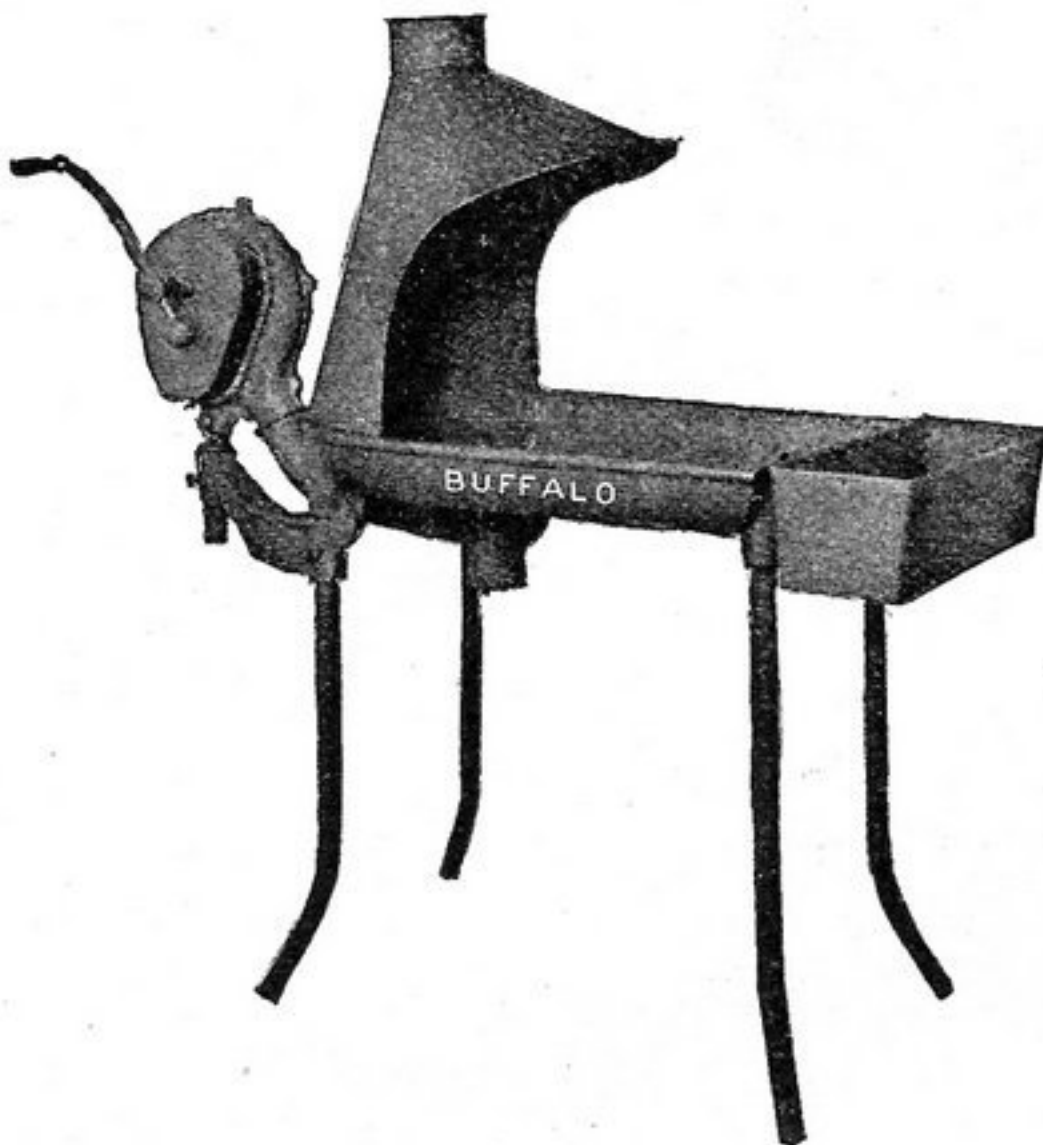
WITH GEARED HAND BLOWERS



No. 651. Blacksmiths' Forge

Price	\$40.00
Price with closed hood	42.00
Size of fire pan	23x30 inches
Weight	165 pounds

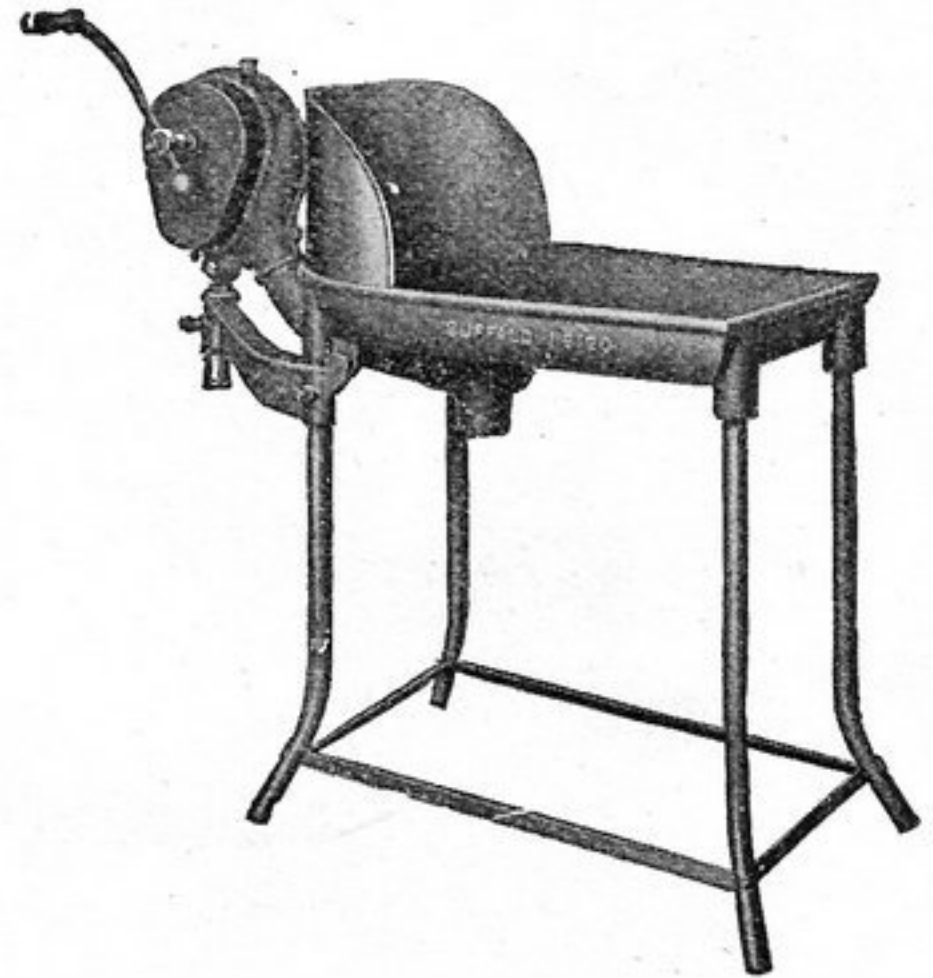
This Forge is the same as No. 650 except that it is smaller and lighter. Fitted with Buffalo Improved No. 200 Blower, it will take all but the heaviest work of a smith shop. A rapid and easy heater, easily shifted about and always ready for work. Used wherever floor space and capacity must be considered.



No. 121. Machinists' Forge

Price without tank	\$40.00
Price with tank	42.00
Size of fire pan	23x40 inches
Weight	195 pounds

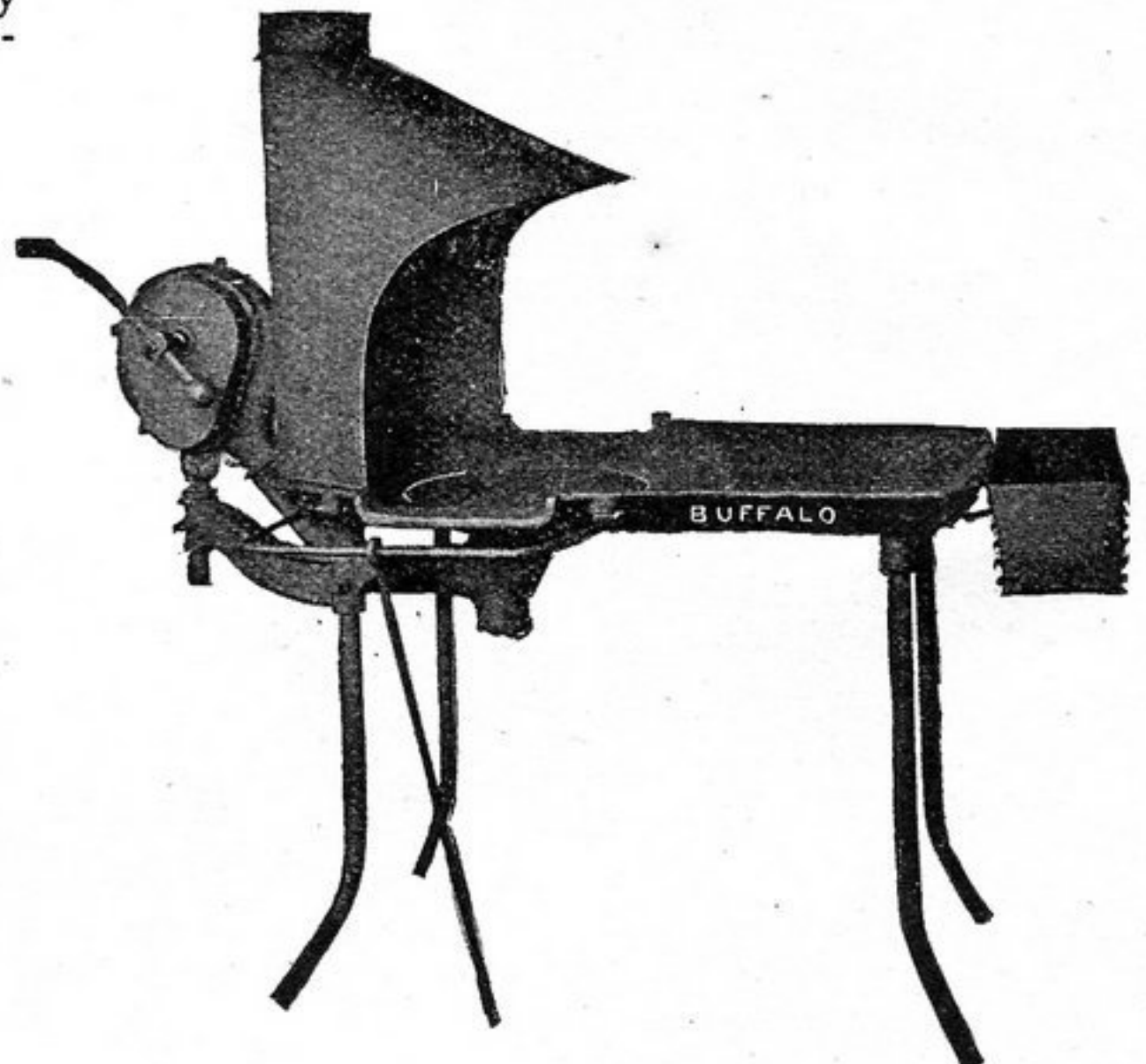
No. 121 is of the same general design as No. 120 except the half-open hood. It is provided with an extra deep fire pan and the Buffalo No. 99 Geared Enclosed Blower driven by cut gears.



No. 120. Bridge Builders' Forge

Price without tank	\$36.00
Price with tank	38.00
Size of fire pan	23x25 inches
Weight	180 pounds

No. 120 combines every requisite for outdoor work, being provided with a wind shield. Built with steel tube legs giving great strength with least weight. Has no light unprotected parts to bend or break by rough handling.



No. 124. Blacksmiths' Forge

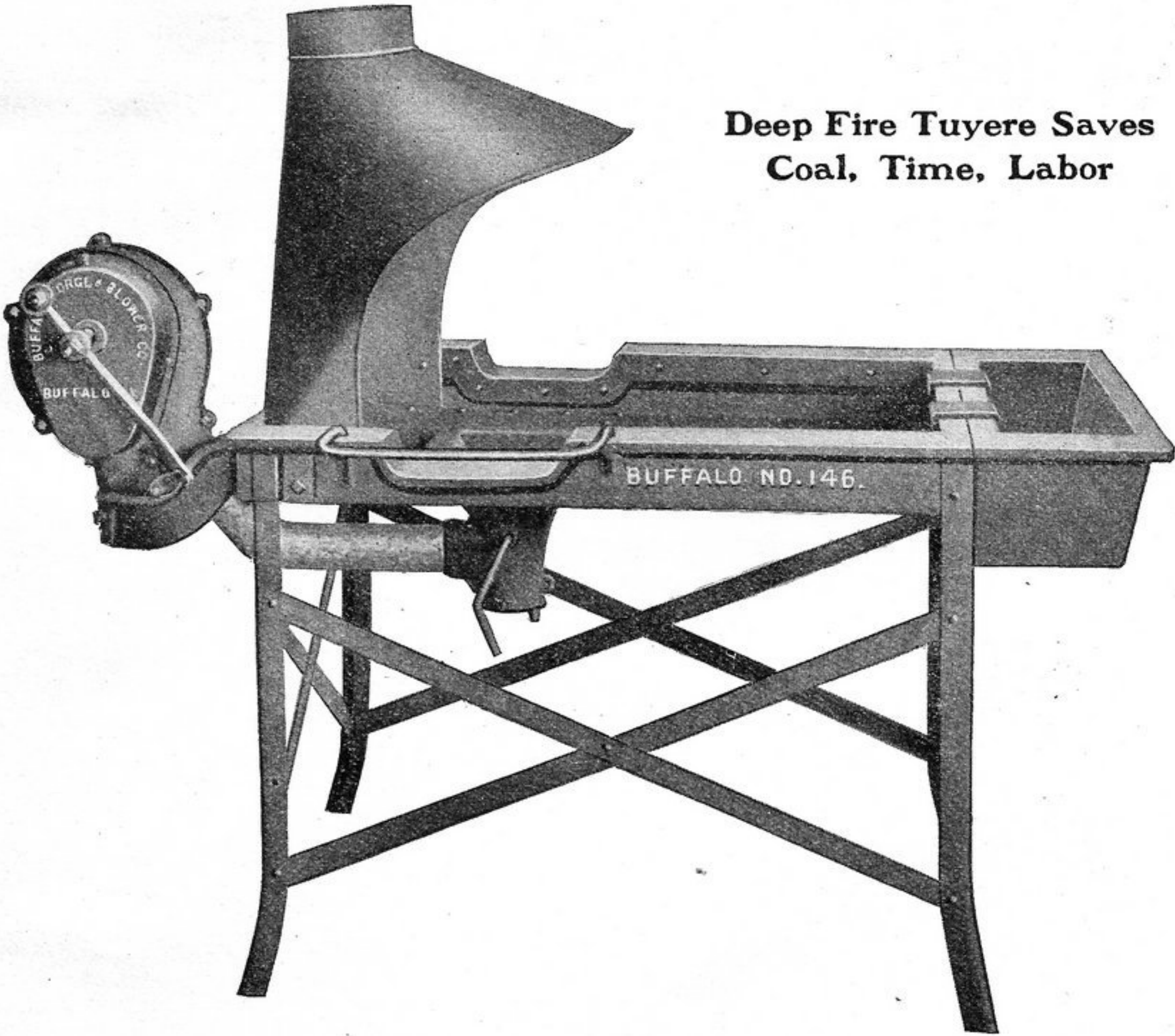
Price without tank	\$46.00
Price with tank	50.00
Size of fire pan	31x53 inches
Weight	250 pounds

No. 124 is designed for the heaviest blacksmiths' work. The hearth is deep and the sides are lowered almost to a level with the tuyere, for long shafts or forgings working with a small fire. Equipped with Buffalo Blower No. 99. Tuyere similar to H. H.

Buffalo Steel Blacksmiths' Forge No. 146

BETTER WORK, MORE OF IT, AND IN
LESS TIME THAN EVER BEFORE

THE RECORD THIS FORGE ESTABLISHES IN EVERY
SHOP SAVES ITS COST IN LESS THAN A YEAR



No. 146 Price, \$70.00

A large fire pan, 30x40 inches—A quietly running No. 99 blower—
Recommend this Forge for **all kinds** of work.

No. 140,	size	24x24,	weight	140	pounds,	price	with	Dash	.....	\$40.00
No. 141,	"	24x24,	"	170	"	"	"	Half Hood	.....	45.00
No. 142,	"	30x30,	"	180	"	"	"	Dash	.....	50.00
No. 143,	"	30x30,	"	190	"	"	"	Half Hood	.....	55.00
No. 144,	"	30x36,	"	200	"	"	"	Half Hood	.....	60.00
No. 146,	"	30x40,	"	225	"	"	"	Half Hood	.....	65.00

Water Tanks, \$5.00 extra.

Buffalo Lever Forges



No. O. C. Lever Forge
Price \$50.00, with Water Tank \$54.00

No. O. C. Forge

With Curved Cast Iron Hood

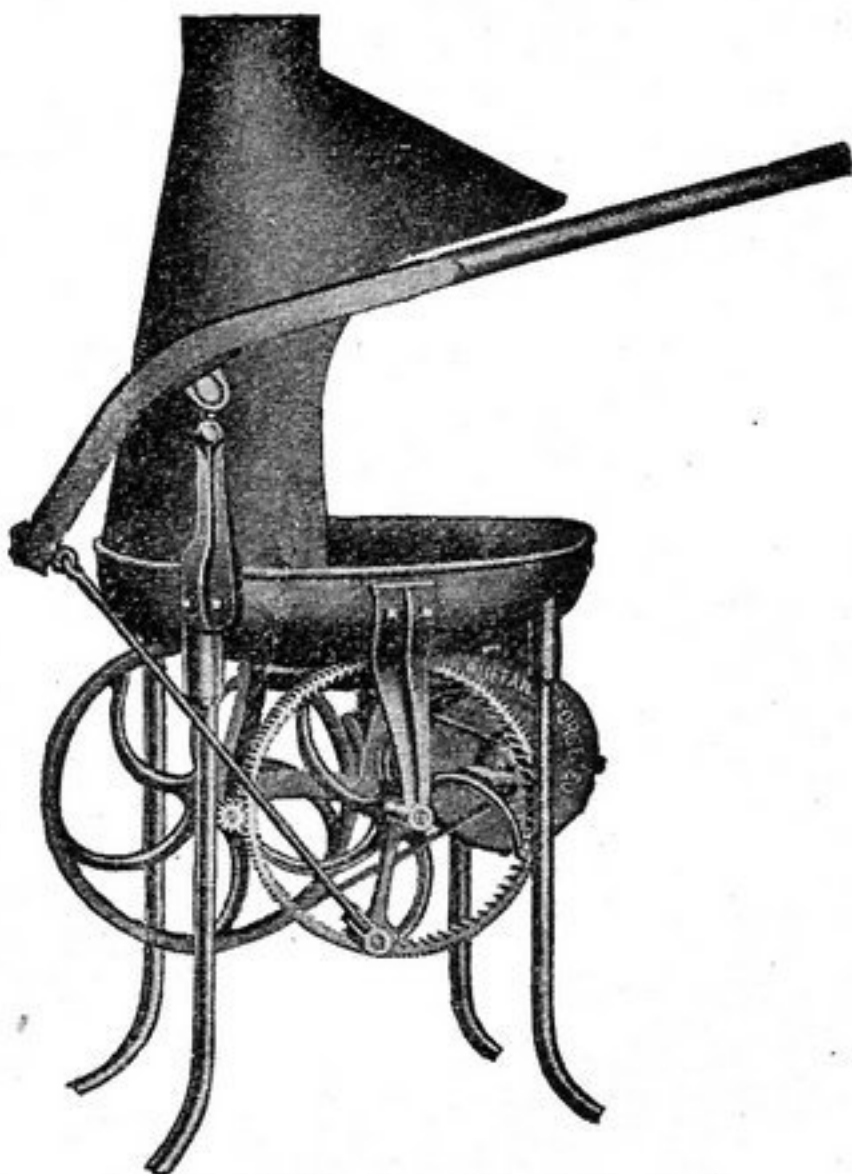
Made with deep H. H. Tuyere.
Will do heaviest kind of
work at less cost for labor

Thousands of the original
machines, sold 30 years ago,
are still in actual operation

Size of fire pan 28 x 42 inches
 Weight 280 pounds

No. O Forge, Price \$50.00
With Water Tank, \$54.00

Insist on Genuine Buffalo Made Machines. See
that NAME IS CAST ON. Guaranteed ten years



No. 1 Machinists' Forge

Price \$40.00
 Size of Fire Pan 21 x 27 inches
 Weight 150 pounds

A superior forge for machinists, plumbers, miners, millers, locksmiths, planters, marble works, railroad repair shops, and for tool and repair work in general.



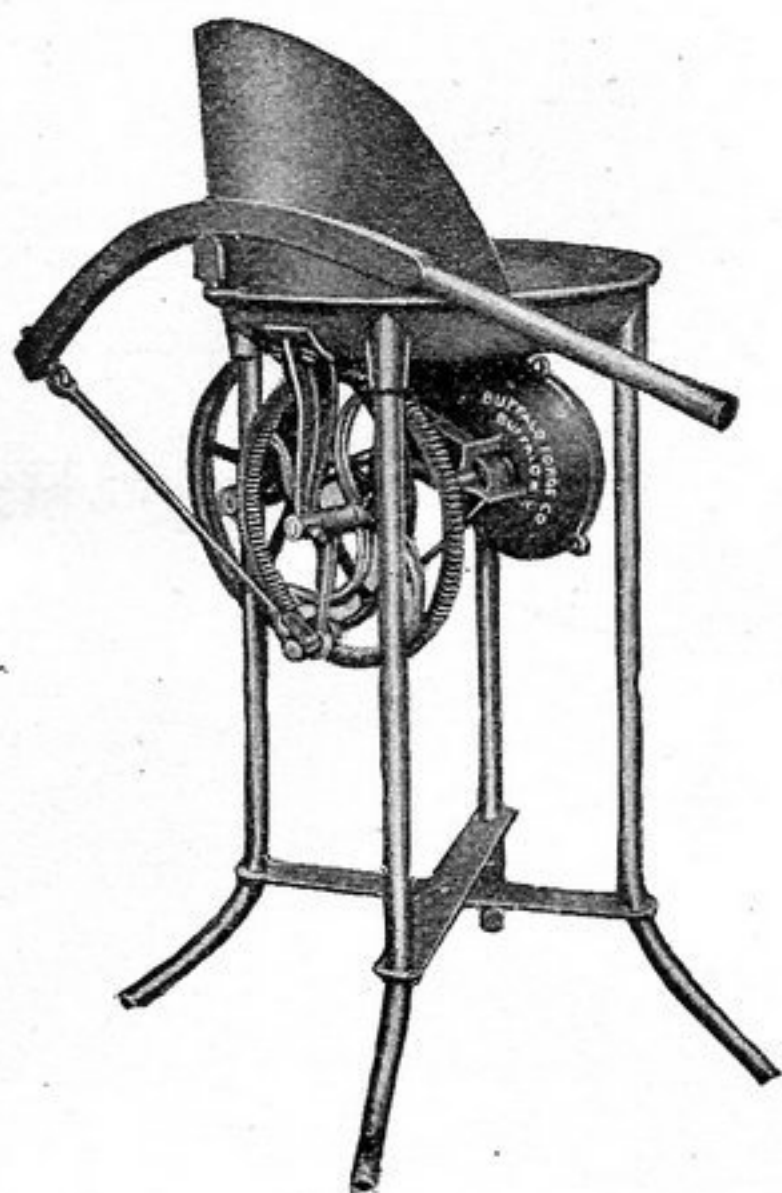
No. 3 Boilermakers' Forge

Price \$36.00
 Size of Fire Pan 21 x 27 inches
 Weight 145 pounds

Suitable for bridge and ship builders, railroad contractors, and for general outdoor work. The deep fire place peculiarly fits this forge for heating rivets and its capacity is guaranteed sufficient to continuously supply from three to four gangs of riveters.

Buffalo Lever Forges

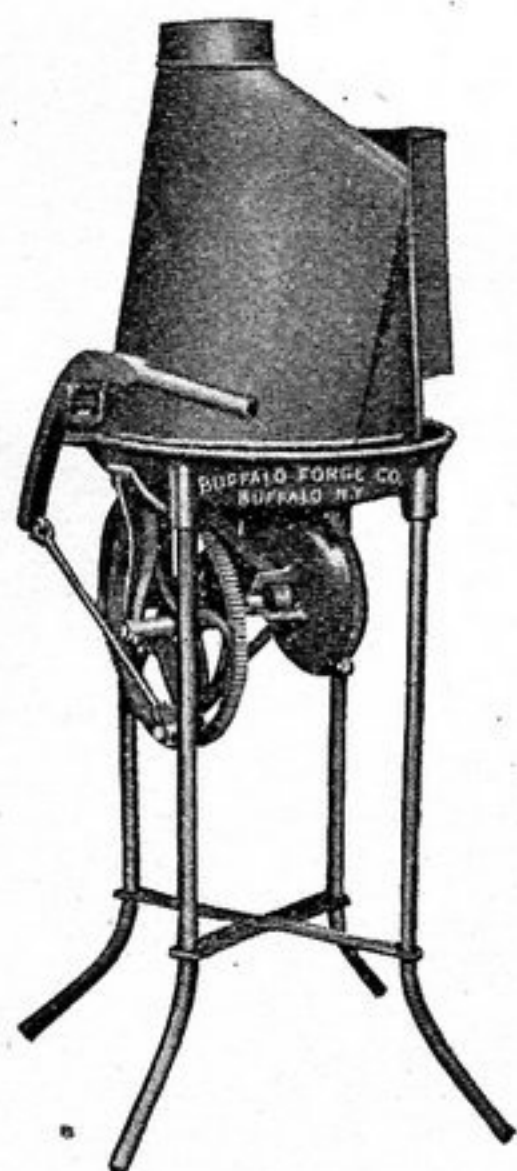
Be Sure that "Buffalo Forge Company" is Cast on the Forge You Buy



No. 4 Toolmakers' Forge
Price \$27.00

Size of Fire Pan, 18 inches. Weight, 75 lbs.

Die sinkers, tool dressers, locksmiths and wood working houses find this forge best suited to their needs.



No. 6 Jewelers' Forge
Price \$30.00

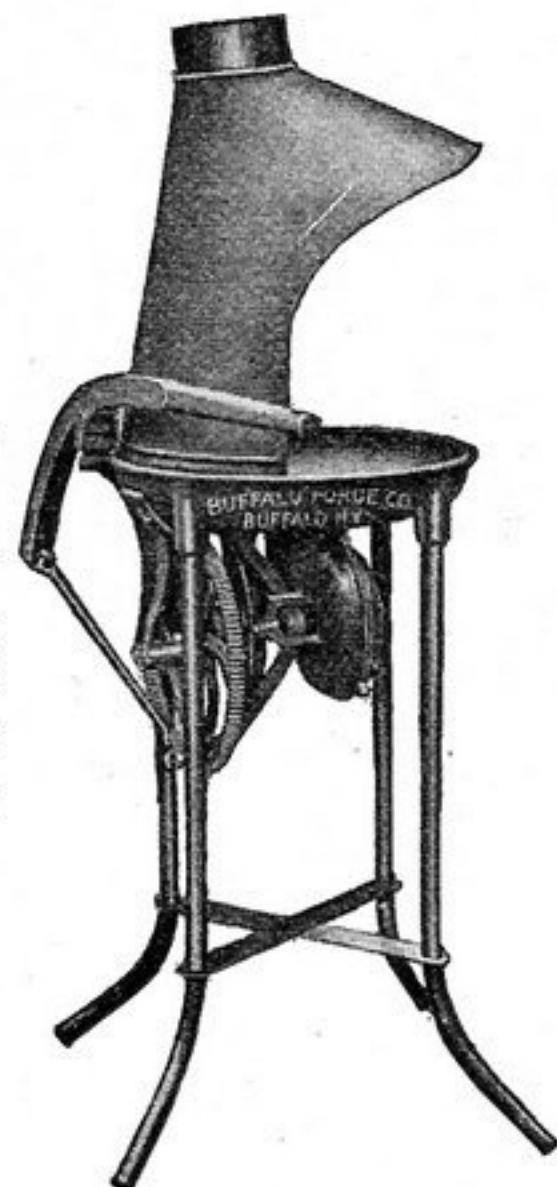
Size of Fire Pan, 18 inches. Weight, 80 lbs.

Adapted for jewelers, cabinet makers, or where combustible matter is present. Occupies little space for a forge of its capacity.

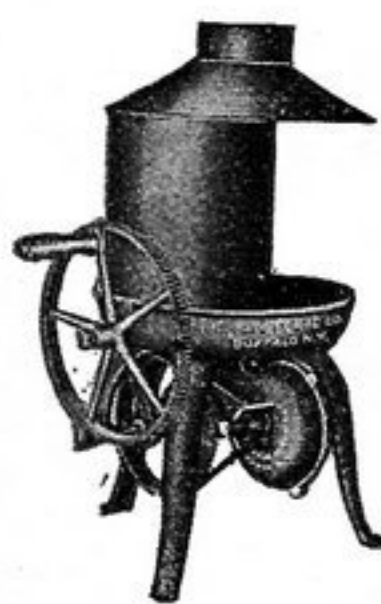
No. 5 Rivet Forge
Price \$24.00

Size Fire Pan, 18 inches.
Weight, 70 lbs.

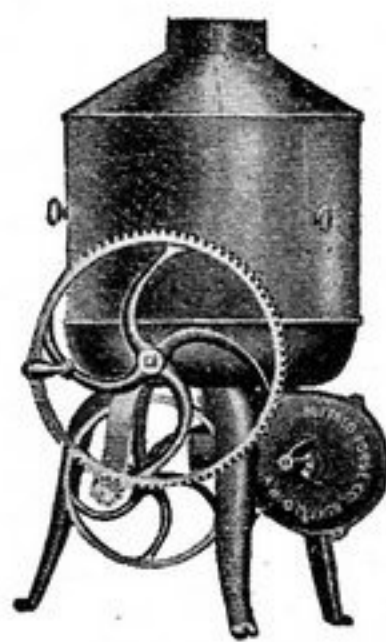
This forge is especially suitable for tank, boiler, bridge, railroad and all out-door repair work. Light in weight; easily carried about.



No. 7 Bench Forge



No. 8 Bench Forge

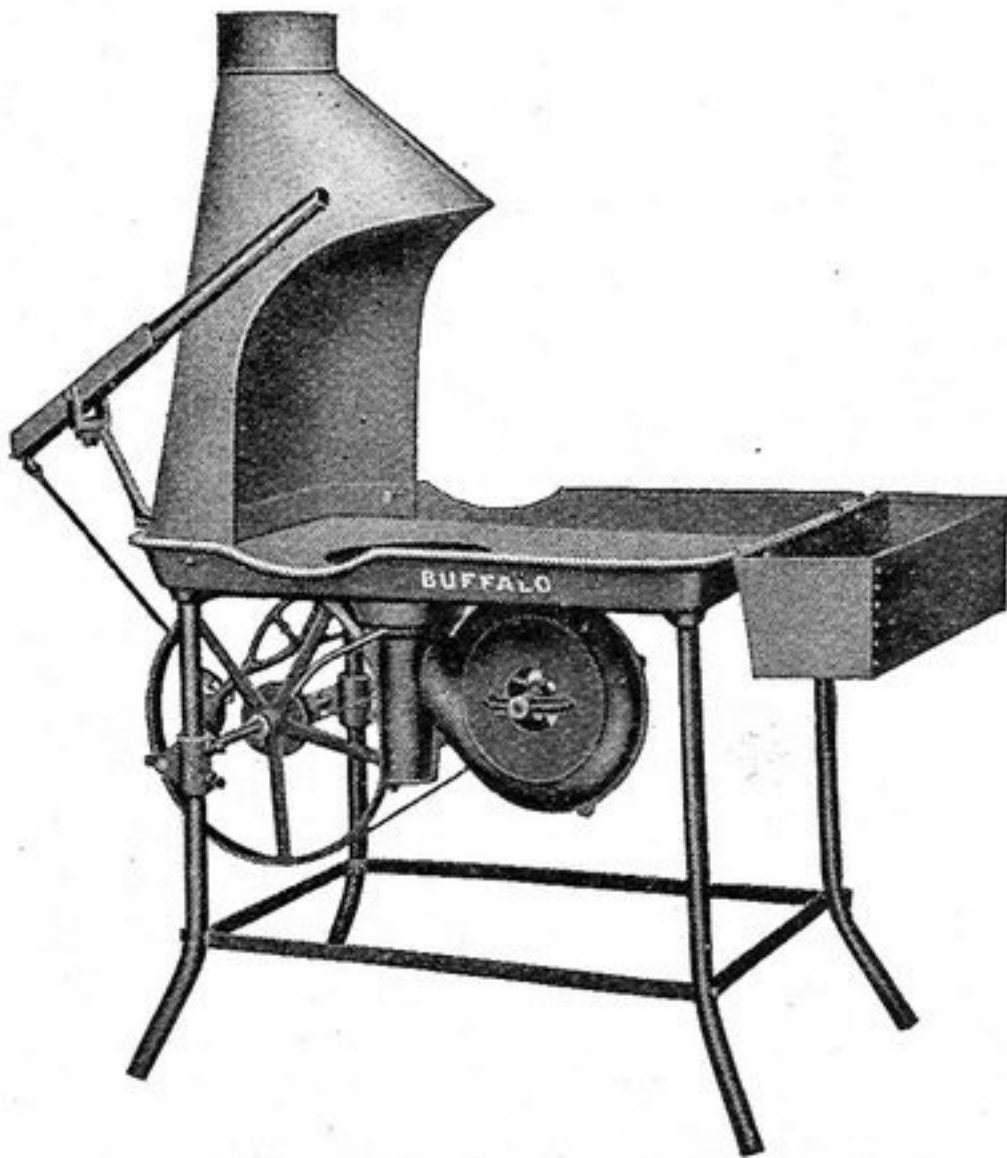


No. 9 Bench Forge

No. 7, weight 40 lbs, 15-in. fire pan, price	\$16.00
No 8, " 42 " " " " " " " " " " " "	 18.00
No. 9, " 43 " " " " " " " " " " " "	 20.00

Especially adapted for jewelers, tinsmiths, locksmiths and farmers. To be placed upon a bench when used. The No. 7 Forge, with dash, may be furnished at an additional cost of \$4.00, with a 15-pound case, 19x19x19 inches, a useful adjunct for miners and prospectors. The No. 9 Forge has a closed hood, preventing escape of smoke and sparks.

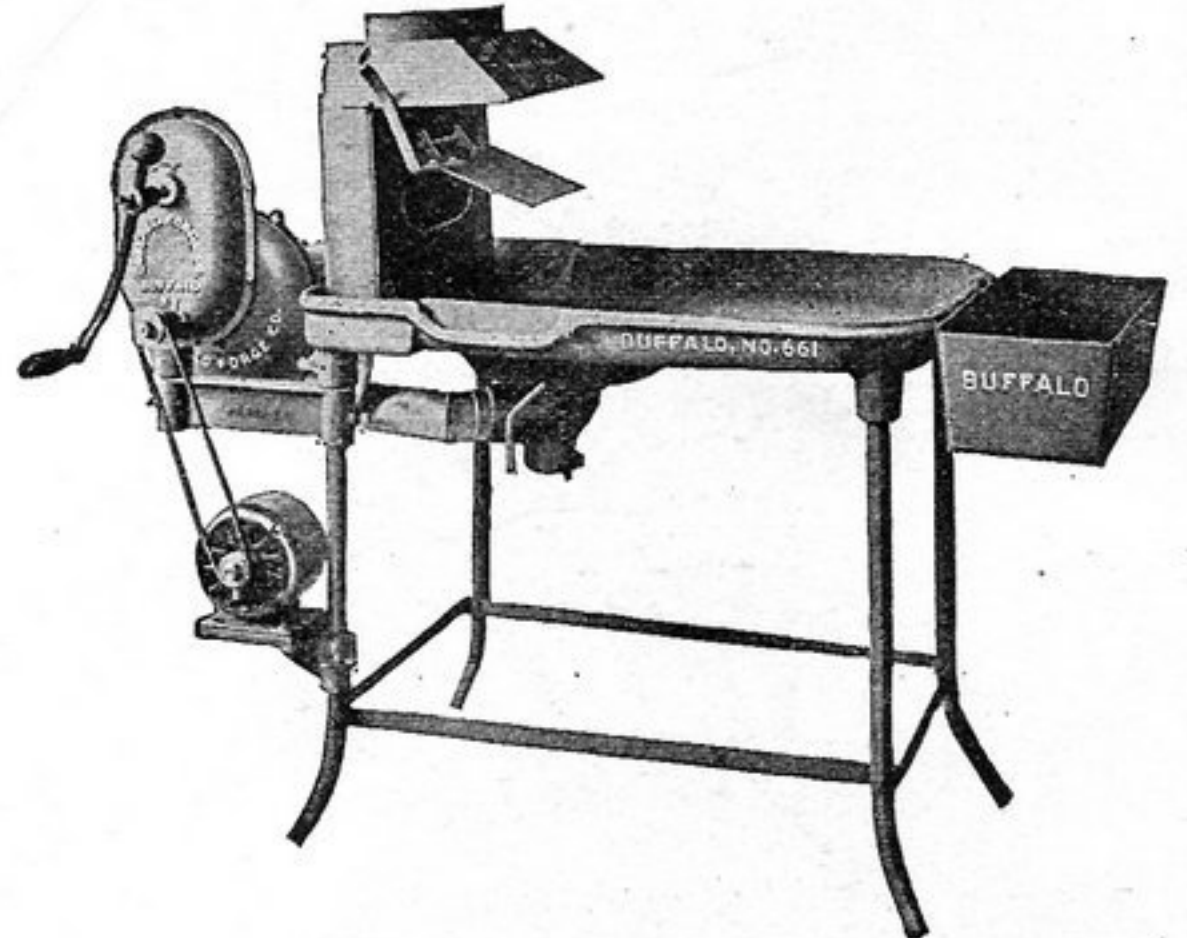
Buffalo Forges



No. 999 Lever Forge
Price, \$22.00

Size of Fire Pan 36x25 inches
Weight.....175 pounds

An ideal forge in its class. Strongly built, there is not a weak spot in its entire construction. Blast is strong, insuring a good fire, and the spacious hood effectually gathers all smoke and gases up the chimney.

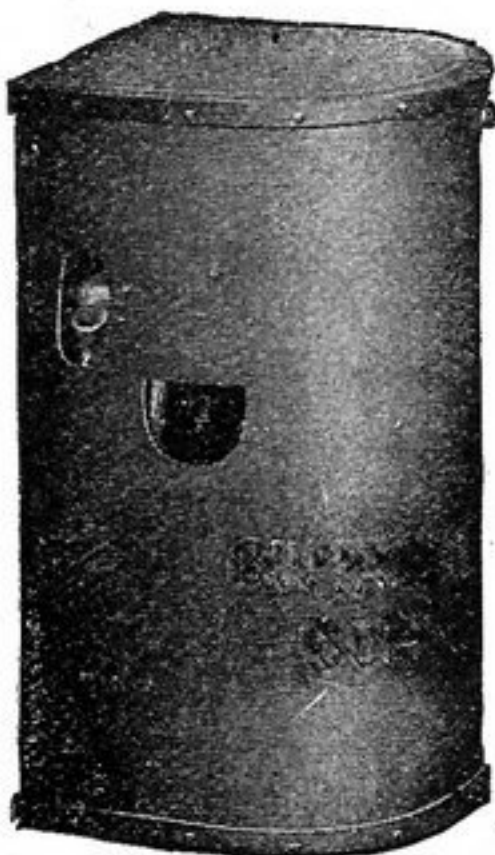


No. 661 Electric Down Draft Forge
Price, without motor, \$90.00

Prices of motors on application.
Size of Fire Pan 28x40 inches

No. 661 shown herewith provides a most convenient unit. Either hand power or electric drive may be used.

No. 10 Buffalo Railroad Forge



The accompanying illustrations show a type of forge designed especially for outdoor service. The interior construction—fan and gearing—is similar to the Buffalo Direct Drive Blower No. 306, having the ratchet motion which insures absolutely quiet running. When not in use the handle may be detached and slipped inside the casing, tools placed in the fire pan, dash hood lowered and locked, thus affording protection against meddlers.



Price \$40.00

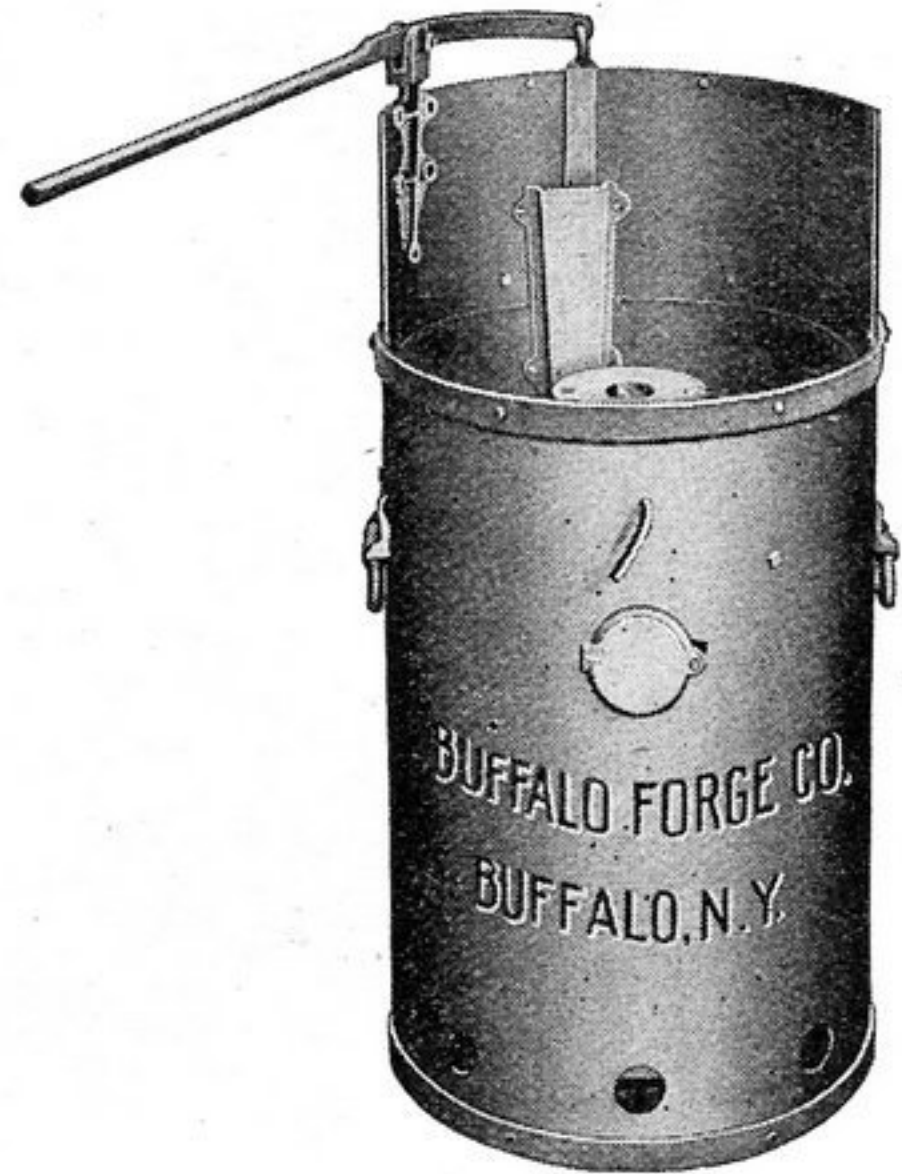
Size of Fire Pan 18 inches
Weight 120 pounds

Buffalo Lever Forges



No. 150. Agricultural Forge. Price.....\$14.00
Size of Fire Pan, 18 inches; weight 65 pounds.

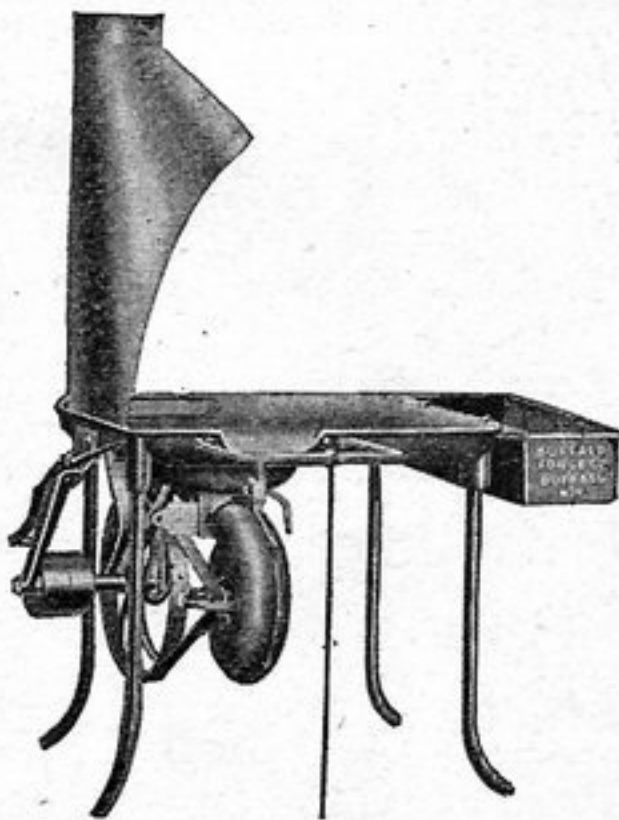
Buffalo Forge No. 150 is designed for the lighter class of outdoor work such as rivet heating, light repairing and for farmers' general use. Nothing to get out of order, to require adjusting or repairing.



No. 12. Bellows Forge. Price \$30.00
Size of Fire Pan, 19½ inches; weight 140 pounds.

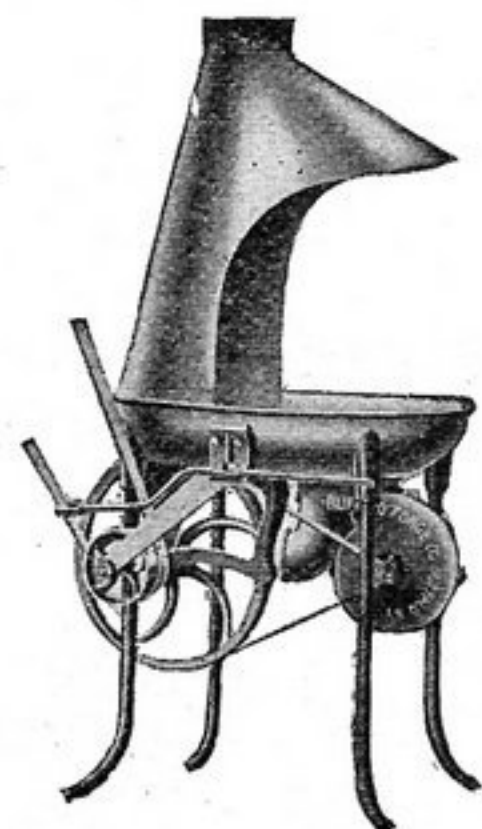
This style of outdoor forge is widely used for repair work, railroad, bridge, tank and all structural-iron operations.

Buffalo Power Forges



No. 0P

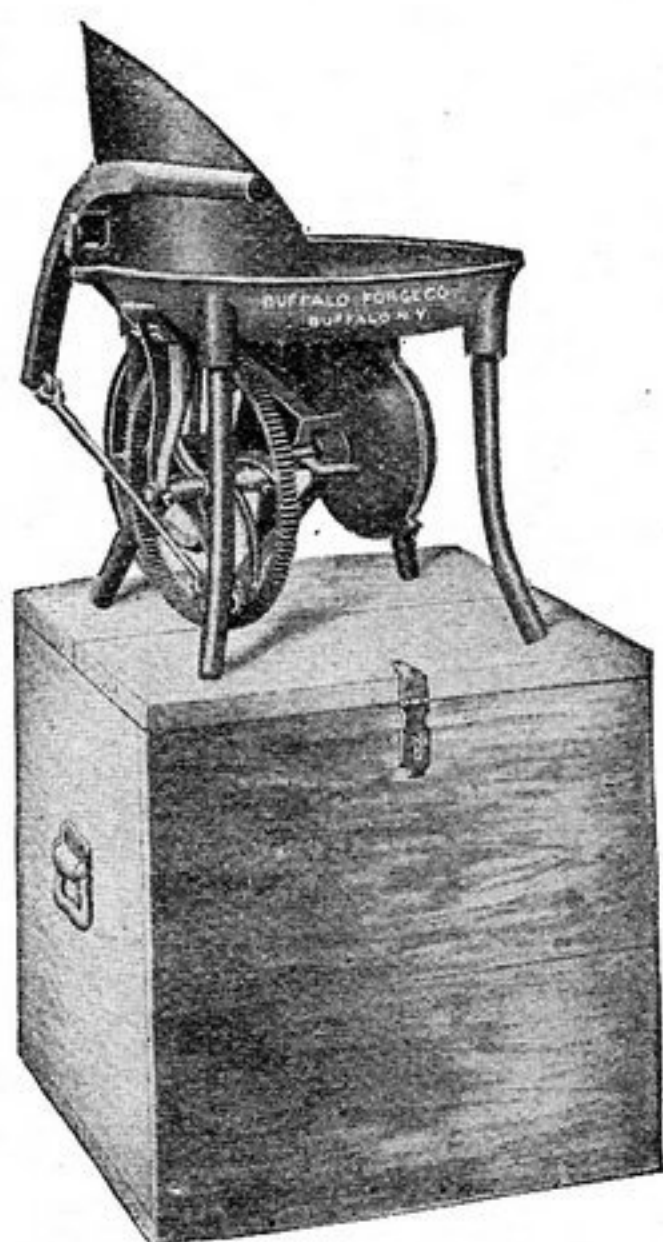
	No. 0P.	No. 1P.
Size of fire pan	28 x 40 in.	21 x 27 in.
Diameter of fan	14 inches	10 inches
Weight of forge	250 pounds	150 pounds
Pulley 5¾ x 2½ in. should run	165 R. P. M.	172 R. P. M.
Price without tank	\$54.00	\$45.00
Price with tank	58 00	49.00
Price with hand lever attachments	58.00	48.00
Price with hand lever attachm'ts and tank	62.00	52.00



No. 1P

Many small manufactories are without the accessory of a blacksmith shop, yet there is as much necessity for a forge as in large industries. Usually it is desirable to have the forge complete, *i. e.*, with a small fan as a part of it, to which power may be transmitted from the main shaft. Even in the largest iron works a selection of the designs illustrated, distributed at intervals, for sharpening tools, tempering, etc., will be found very convenient. Power Forges No. 0P and No. 1P, for a great variety of work in machine shops, will save the labor of a helper.

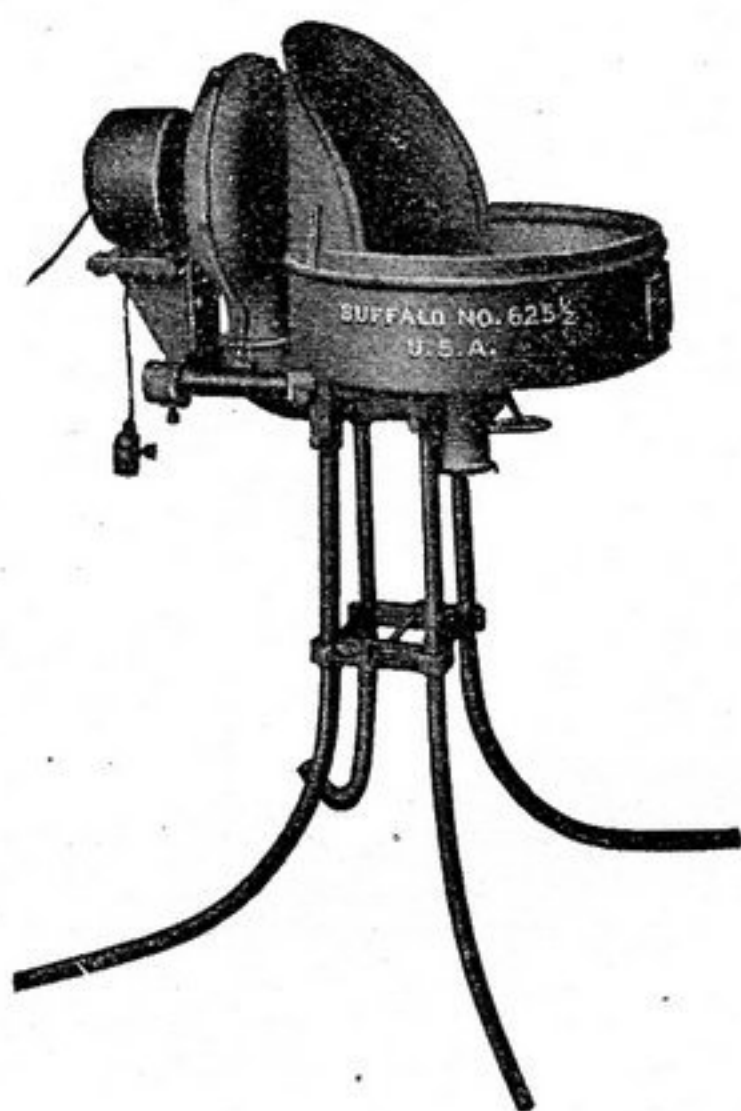
Buffalo Portable Forges



PROSPECTORS' FORGE NO. 11

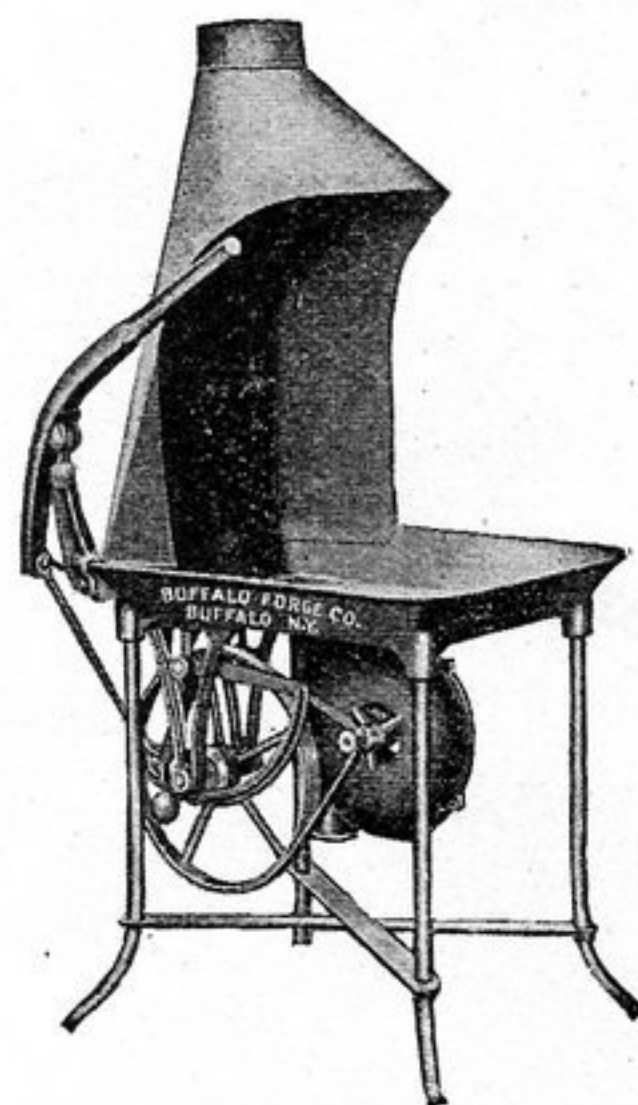
Price, with case	\$26.00
Size of fire pan	18 inches
Weight, without case	60 pounds
Case outside measurements	22x22x22 inches

The legs of this forge are short, rendering it **compact for transportation**. Large capacity, and permits of a great variety of work.



ELECTRIC FORGE NO. 625 $\frac{1}{2}$

Price without motor	\$42.00
Size of fire pan	18 inches
Weight	150 pounds
Prices of motors on application.	



BLACKSMITHS' FORGE NO. 50

Price with half open hood	\$45.00
Size of fire pan	23x30 inches
Weight	158 pounds

This same style of forge may be built with dash (No 49), or with an entirely closed hood (No.51). With the latter arrangement doors, front and back, of ample capacity are provided for manipulating the fire.

No. 625 $\frac{1}{2}$ forge is identical in every point of design with Buffalo Steel Rivet Forge No. 625 except that it is operated by direct-connected motor.

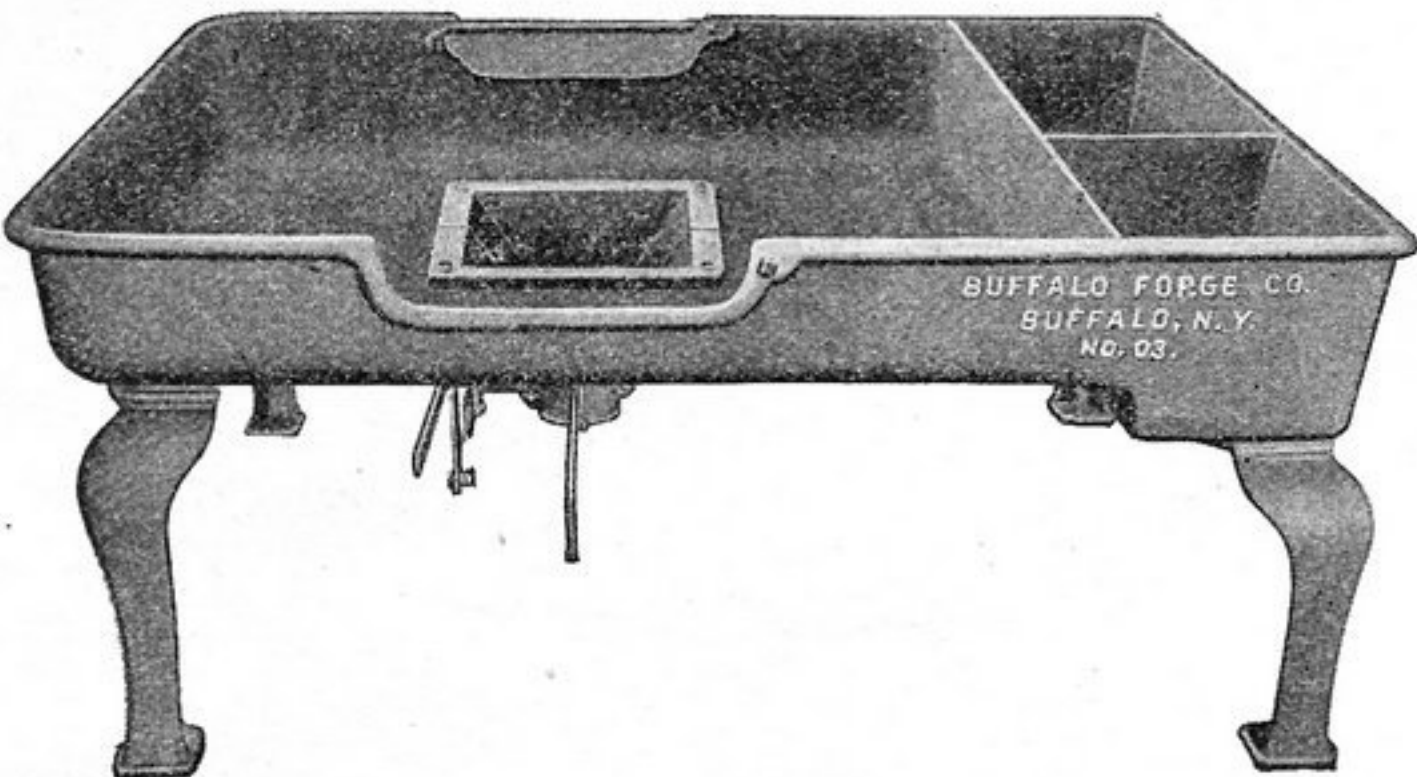
The air supply pipe leading from the fan outlet to the tuyere is provided with a sliding blast gate giving control at all times over the amount of air delivered to the fire.

Buffalo Forges guaranteed better than any other make.

Guaranteed to cost less than the best of any other make.

Buffalo Stationary Forges

Stationary Forge No. 03 was primarily designed for the Union Pacific R. R. smith shops. It is especially adapted to heavy work and always gives the greatest satisfaction. Great safety, economy and durability are at once characteristic of this forge.



The fire pit has a depth of 8 inches, while the gates on the sides allow the fire to be lowered 4 inches, when it is desired to have a thin fire. **It has an improved tuyere of extra heavy construction.** This forge is also supplied with a lever blast gate, coal box and water tank. The coal box and water tank are integral with the body of the forge.

No. 03 Forge Price \$80.00
With H. H. Tuyere \$84.00

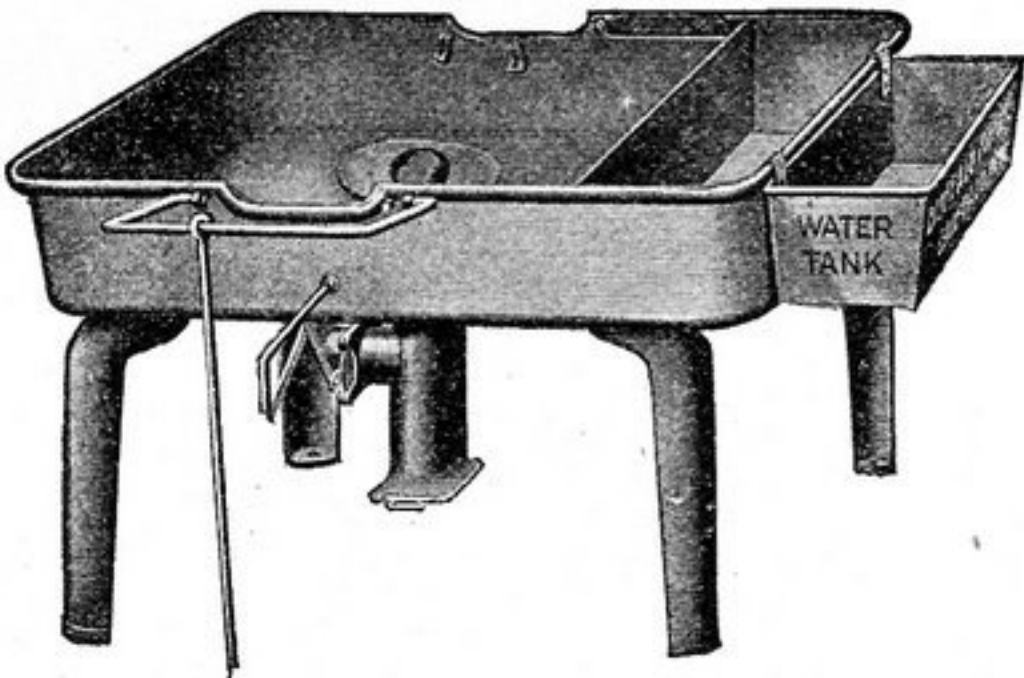
Size of fire pan.....46½x47 inches
 Weight, complete.....745 pounds
 Blast connection.....4 inch

Buffalo Stationary Blast Forge No. 00S

No. 00S has found favor with smiths who perform light, medium and heavy work. This forge is furnished with blast gate with lever connections to operate, a heavy cast-iron tuyere, similar to one on forge No. 03 and on Forge No. 670C; coal box and water tank.

No. 0S is intended for light to medium work, and is a great favorite in small shops, where it saves much time, labor and money.

No. 1S is similar in design to No. 0S but has smaller dimensions. The legs of these forges are of wrought iron, rigidly affixed to the cast-iron fire pan.

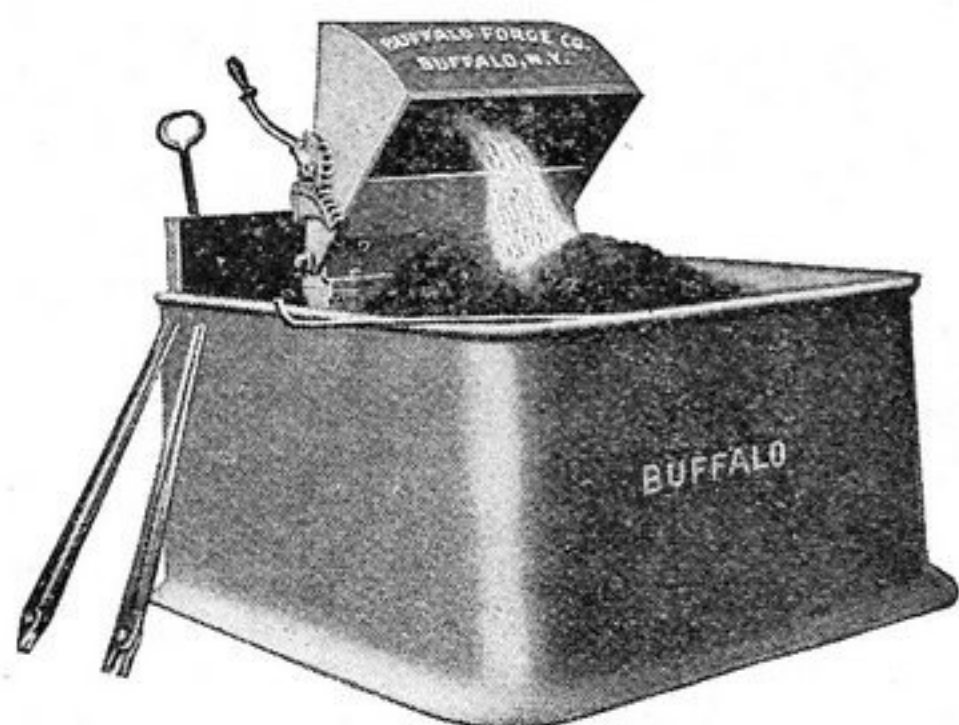


No. 00S Price \$50.00

Number	Height	Size of Fire Pan	Weight	Blast Connection	Price
00S	26½ inches	28 x32 in.	412 pounds	3 inch	\$50 00
0S	33 inches	26¾x38¼ in.	140 pounds	3 inch	20 00
1S	30½ inches	21 x27¼ in.	80 pounds	3 inch	15.00

For complete line of Stationary Forges, see Special Catalogue.

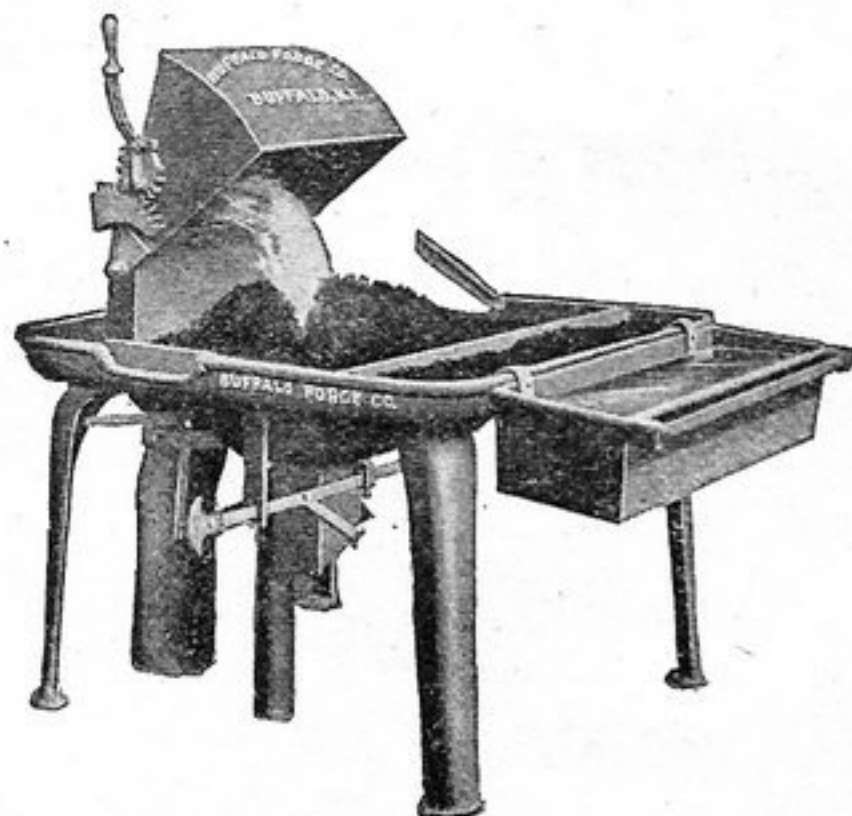
Buffalo Stationary Forges



No. 0D. Down Draft Forge
Price \$125.00

Size of fire pan..... 42 x 42 inches
Blast connection..... 4 inch
Exhaust 8 inches
Weight 1,070 pounds

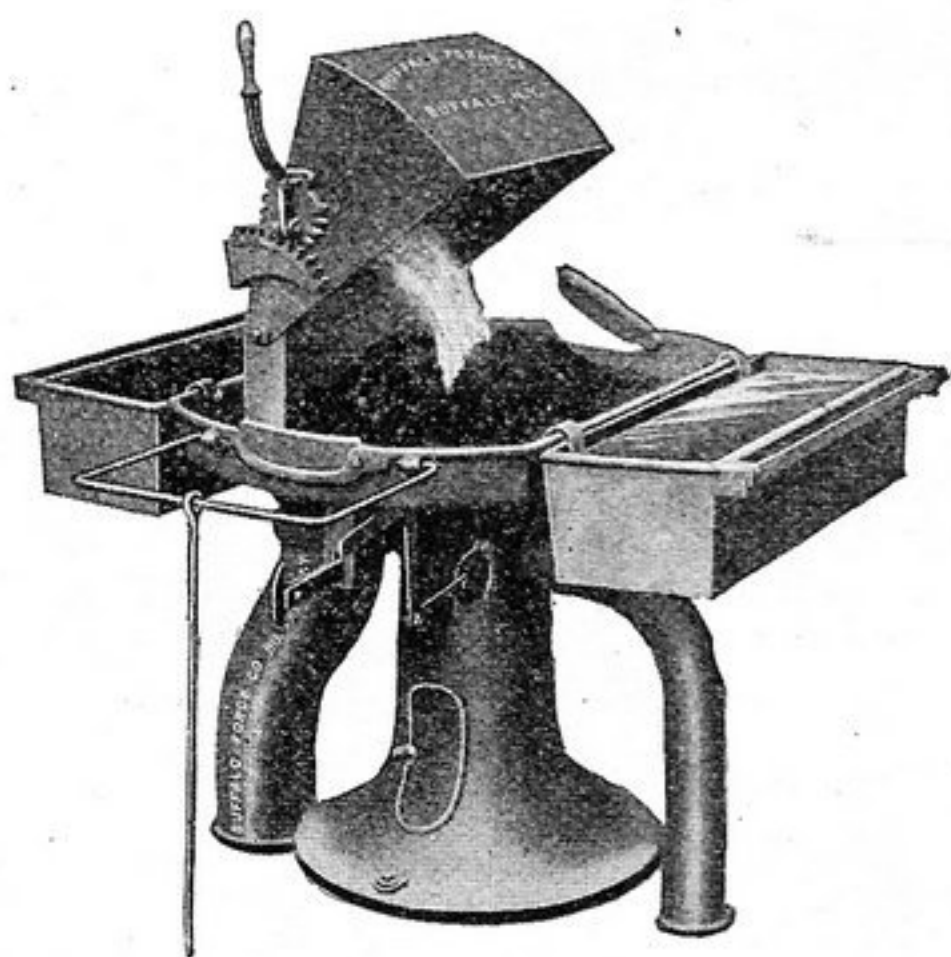
It is furnished with blast gate, cast-iron and anti-clinker dumping tuyere and Buffalo patent down-draft smoke exhaust hood.



No. 09D. Down Draft Forge
Price \$70.00

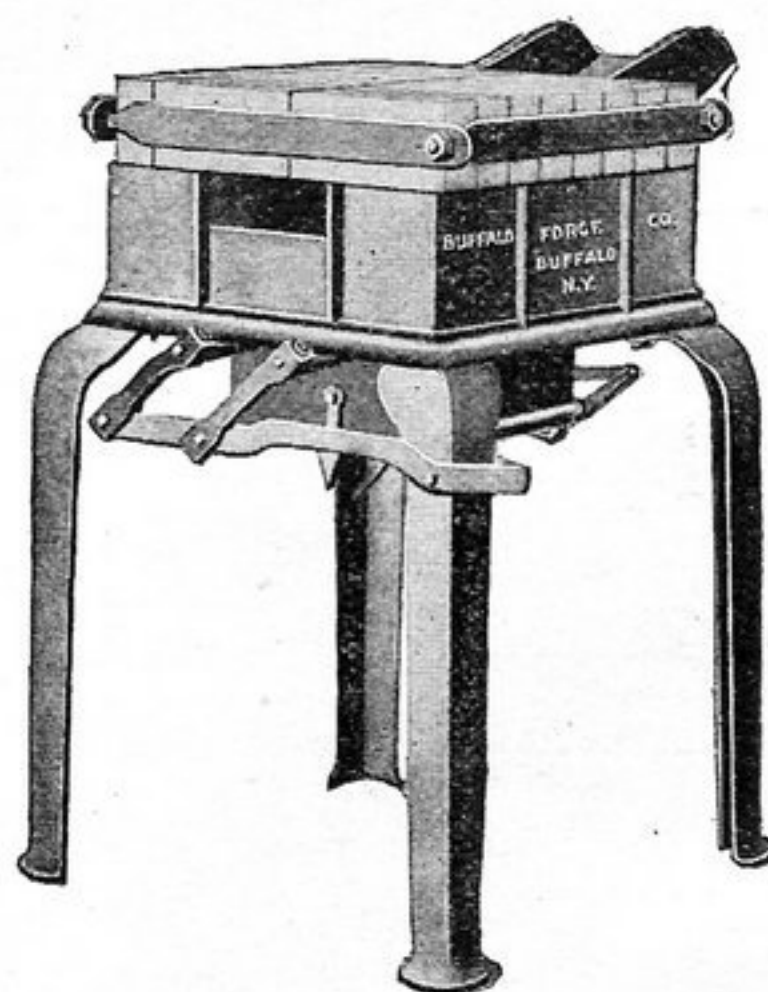
Size of fire pan..... 37 x 41 inches
Blast connection..... 3 inch
Exhaust 6 inches
Weight 550 pounds

This Forge is constructed of heavy cast iron and is well able to withstand rough usage.



No. 02D. Down Draft Forge
Price \$56.00

Size of fire pan..... 24 x 36½ inches
Blast connection..... 3 inch
Exhaust 6 inches
Weight..... 410 pounds



No. 31. Heating Forge
Price \$45.00

No. 31 is a heating forge intended for light work.

No. 32 is built for a great variety of work, heating axes, hammers, etc.

No. 34 is built with open ends and adapted for heavy work. The prices below do not include the fire brick.

Buffalo Down Draft Forges

Bright, Clean, Healthy Shops

Keep Shops Free from smoke and noxious gases

Down Draft Fire Saves Coal, Increases Efficiency, Etc.

No.	Size of Grate	Height of Grate	Blast Connection	Price
31	12x12 in.	38 in.	one 2½ in.	\$45.00
32	13½x22 in.	38 in.	one 3 in.	65.00
34	12x44 in.	38 in.	two 3 in.	75.00

Buffalo Tuyere Irons

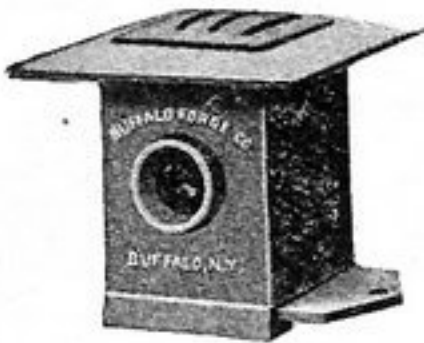
Buffalo Tuyere Iron No. AA



Size, 5 x 5 in. Weight, 53 lbs.

Price\$7.00

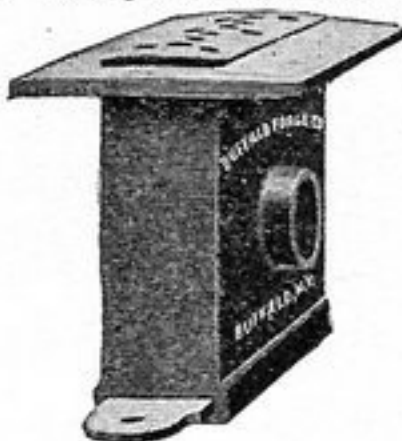
Buffalo Tuyere Iron No. BB



Size, 6 x 6 in. Weight, 61 lbs.

Price\$7.00

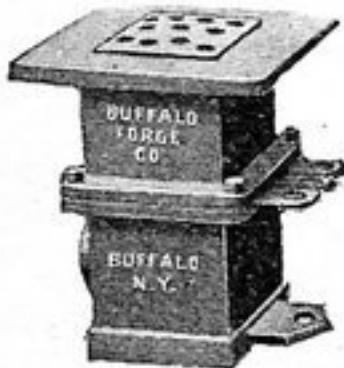
Buffalo Tuyere Iron No. CC



Size, 11 x 3 in. Weight, 53½ lbs.

Price\$6.00

Buffalo Tuyere Iron No. DD



Size, 5 x 4 in. Weight, 36 lbs.

Price\$5.00

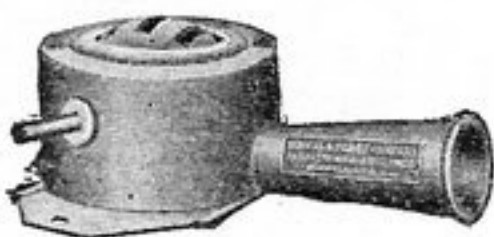
Buffalo Tuyere Iron No. FF



Size of Tuyere Ball, 7 in. Weight, 86½ lbs.

Price\$10.00

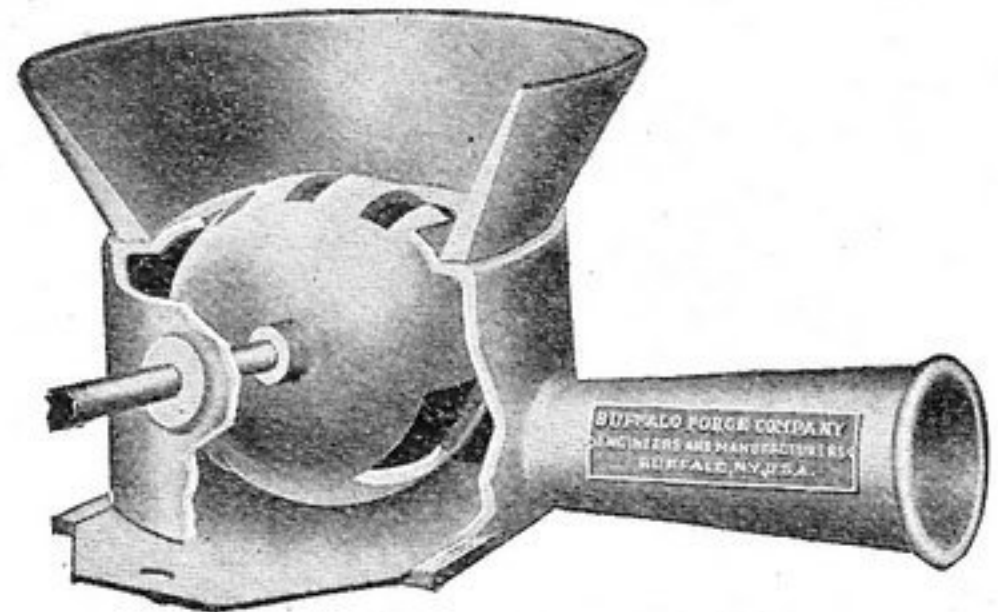
Buffalo Tuyere Iron No. GG



Size of Tuyere Ball, 5 in. Weight, 44 lbs.

Price\$7.00

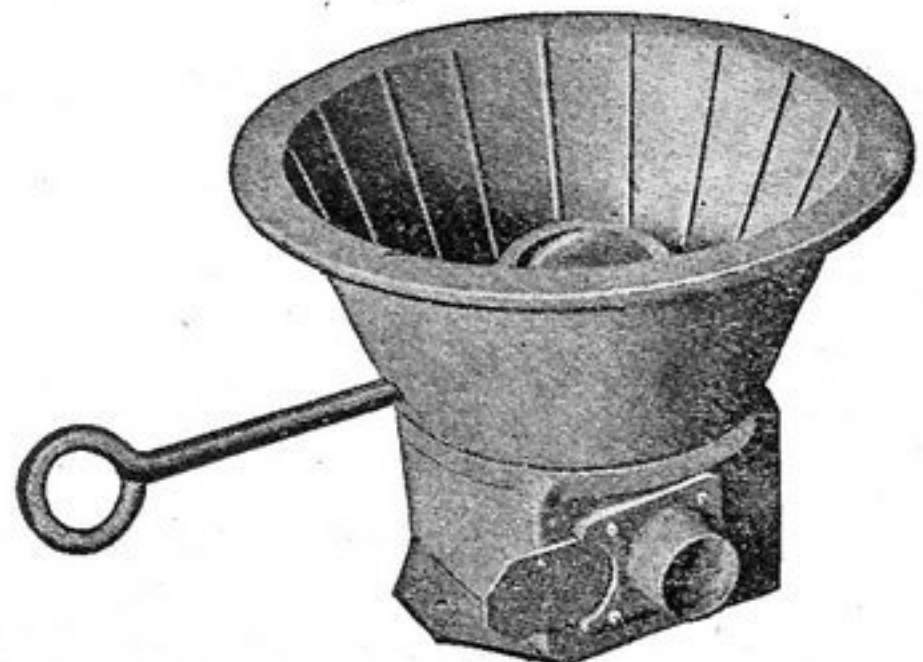
Buffalo Tuyere Iron No. EE



Size, 11 in. Weight, 55 lbs.

Price\$7.00

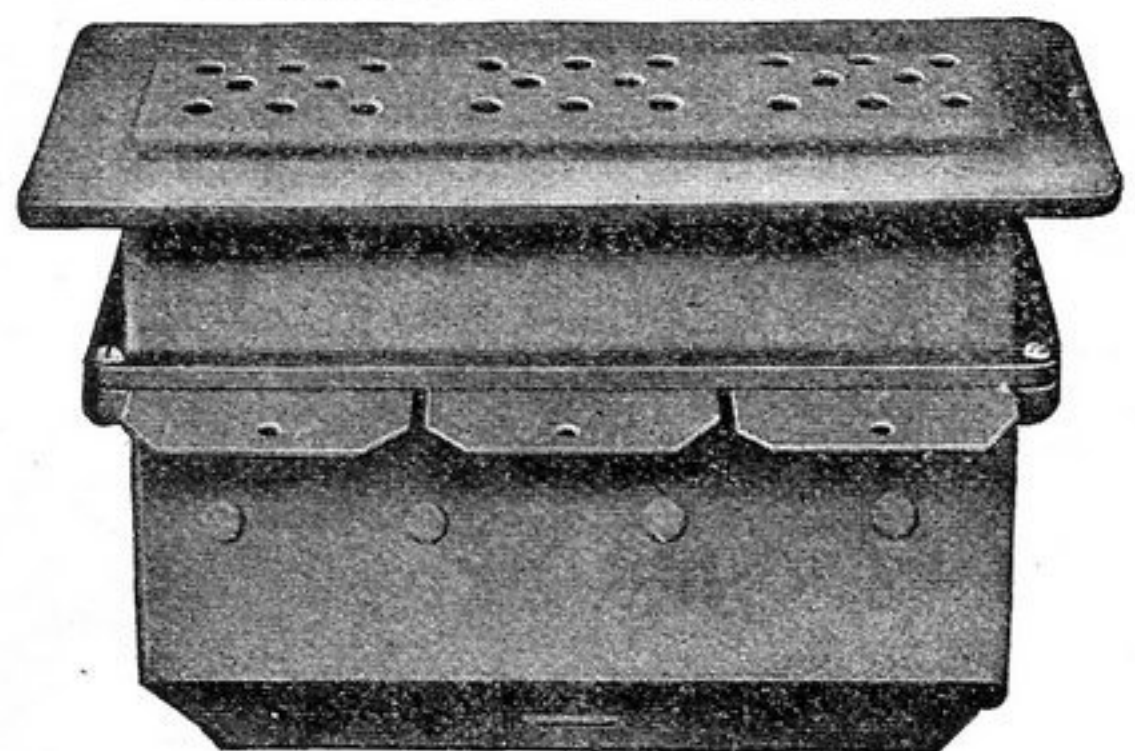
Buffalo Tuyere Iron No. JJ



Size of Nest, 18 in. dia., 4 in. deep. Weight, 65 lbs.

Price\$8.00

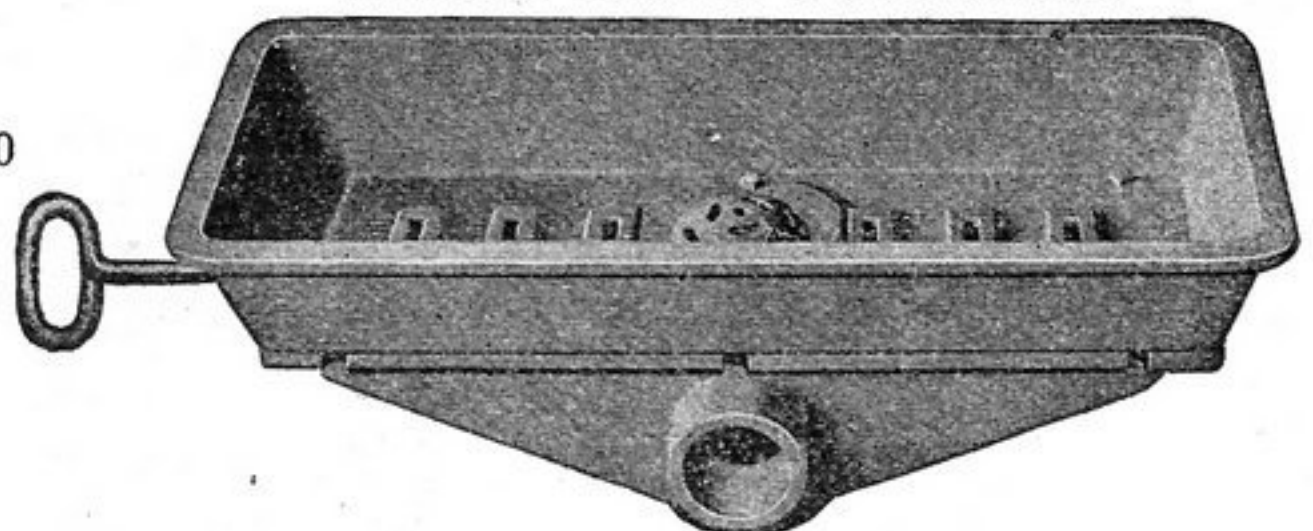
Buffalo Tuyere Iron No. KK



Size, 14 x 4 in. Weight, 68 lbs.

Price\$7.50

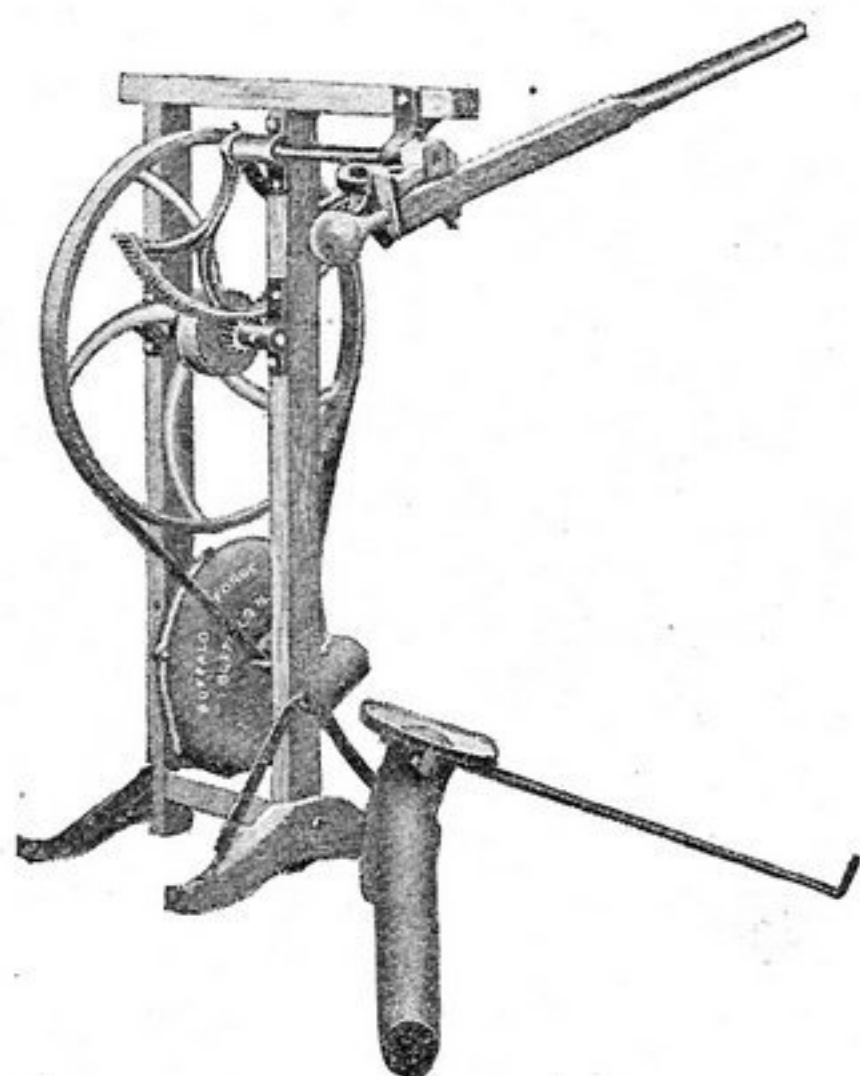
Buffalo Tuyere Iron No. LL



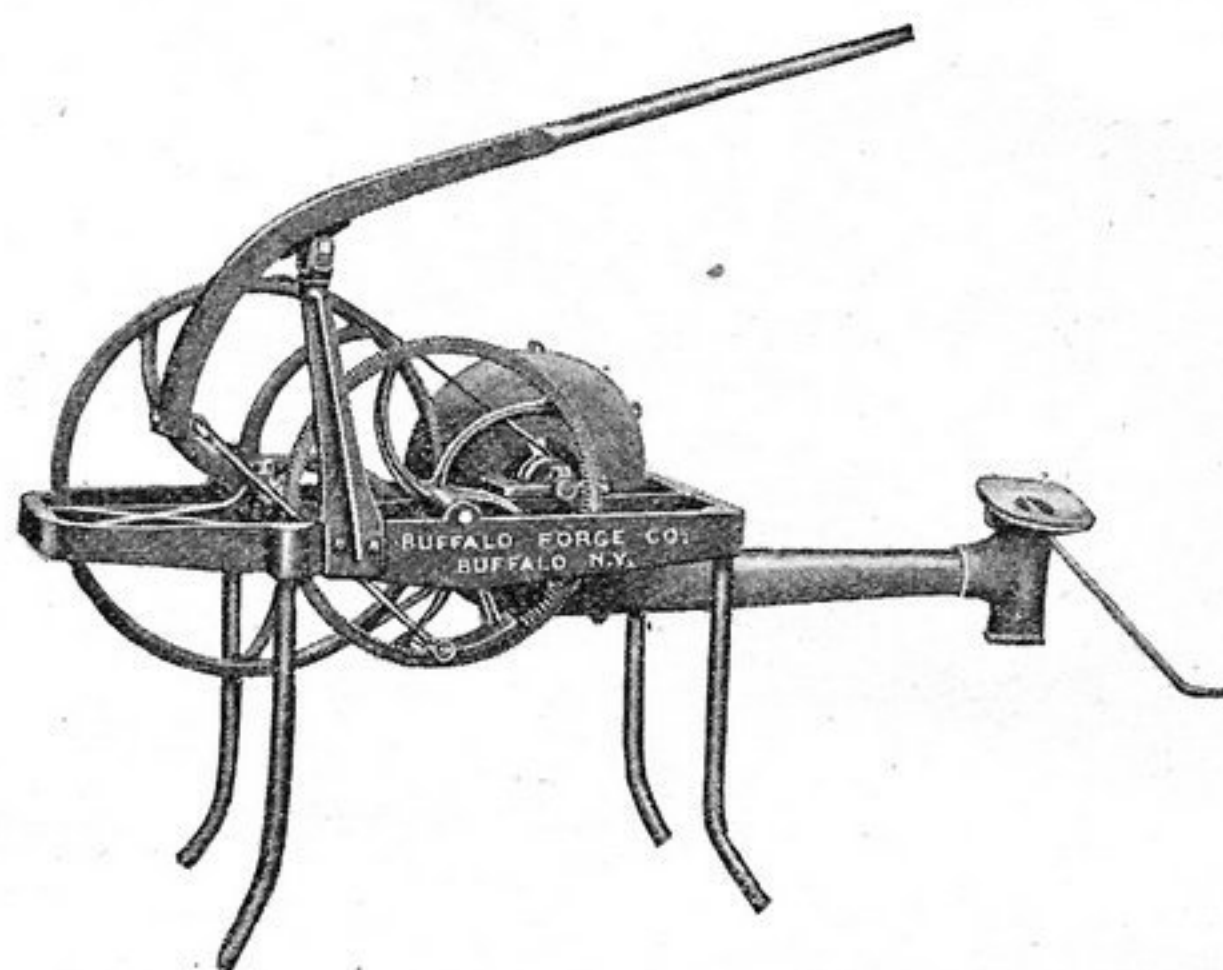
Size of Nest, 24 x 9 x 3½ in. Weight, 85 lbs.

Price\$10.00

Buffalo Lever and Crank Hand Blowers

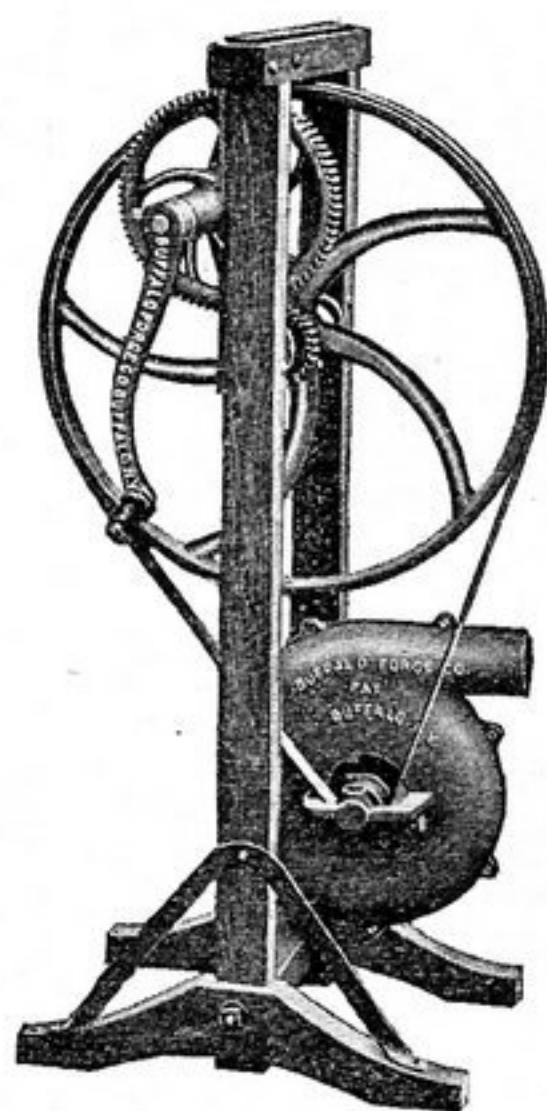


No. 3 Hand Blower
Price \$25.00
 Fan 14 Inches. Weight 130 Lbs.

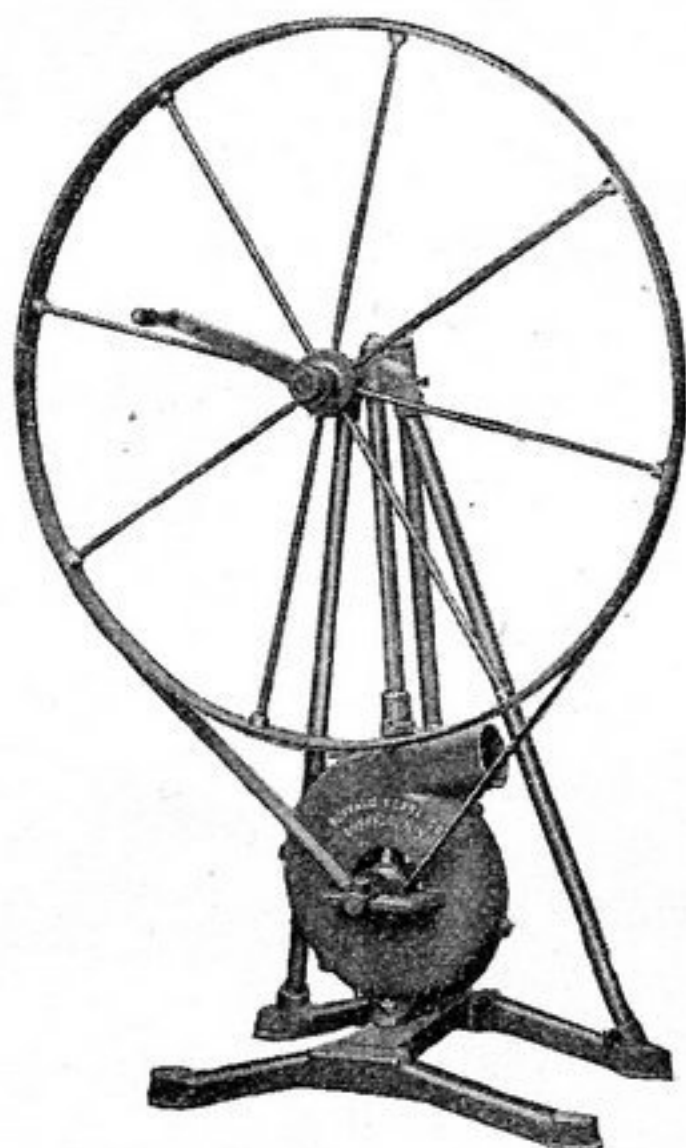


No. 4 Hand Blower with Tuyere
Price \$36.00
 Fan 17 Inches. Weight 275 Lbs.

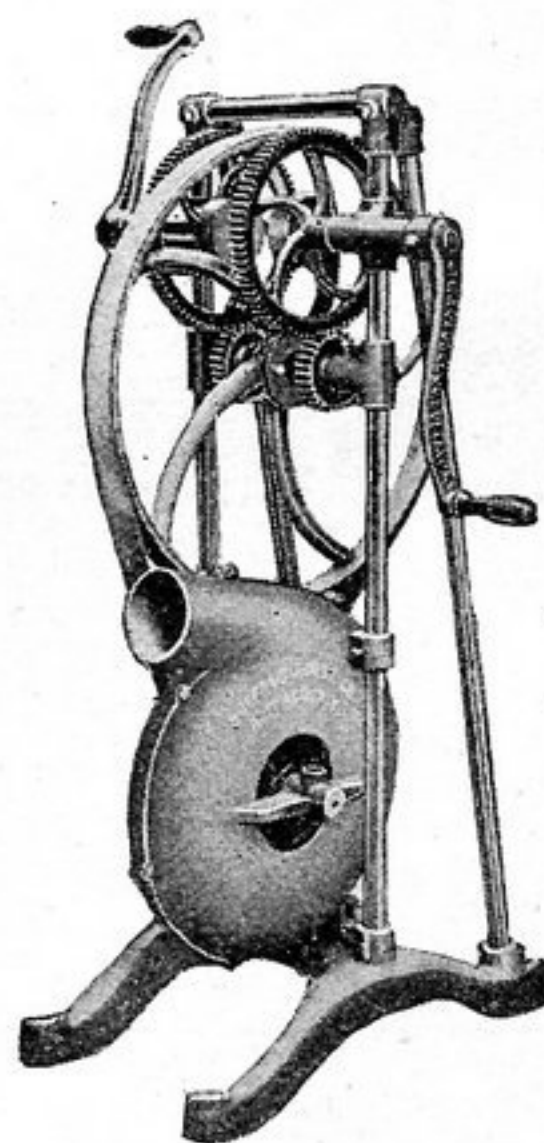
Insist on Genuine Buffalo made machines. See that name is cast on.



No. 5 Crank Hand Blower
 (Right Hand)
Price \$20.00
 Fan 14 Inches. Weight 125 Lbs.



No. 6 Hand Blower
Price \$28.00
 Fan 17 Inches. Weight 210 Lbs.



No. 7 Double Crank Hand Blower
Price \$32.00
 Fan 17 Inches. Weight 195 Lbs.

5 Buffalo Blowers
that are Sold
in all Parts
of the World

Buffalo Ball Bearing Drill No. 90

The Best

In design, material, workmanship and efficiency
Machine made and cut gears.

Blacksmith Drill

On the market

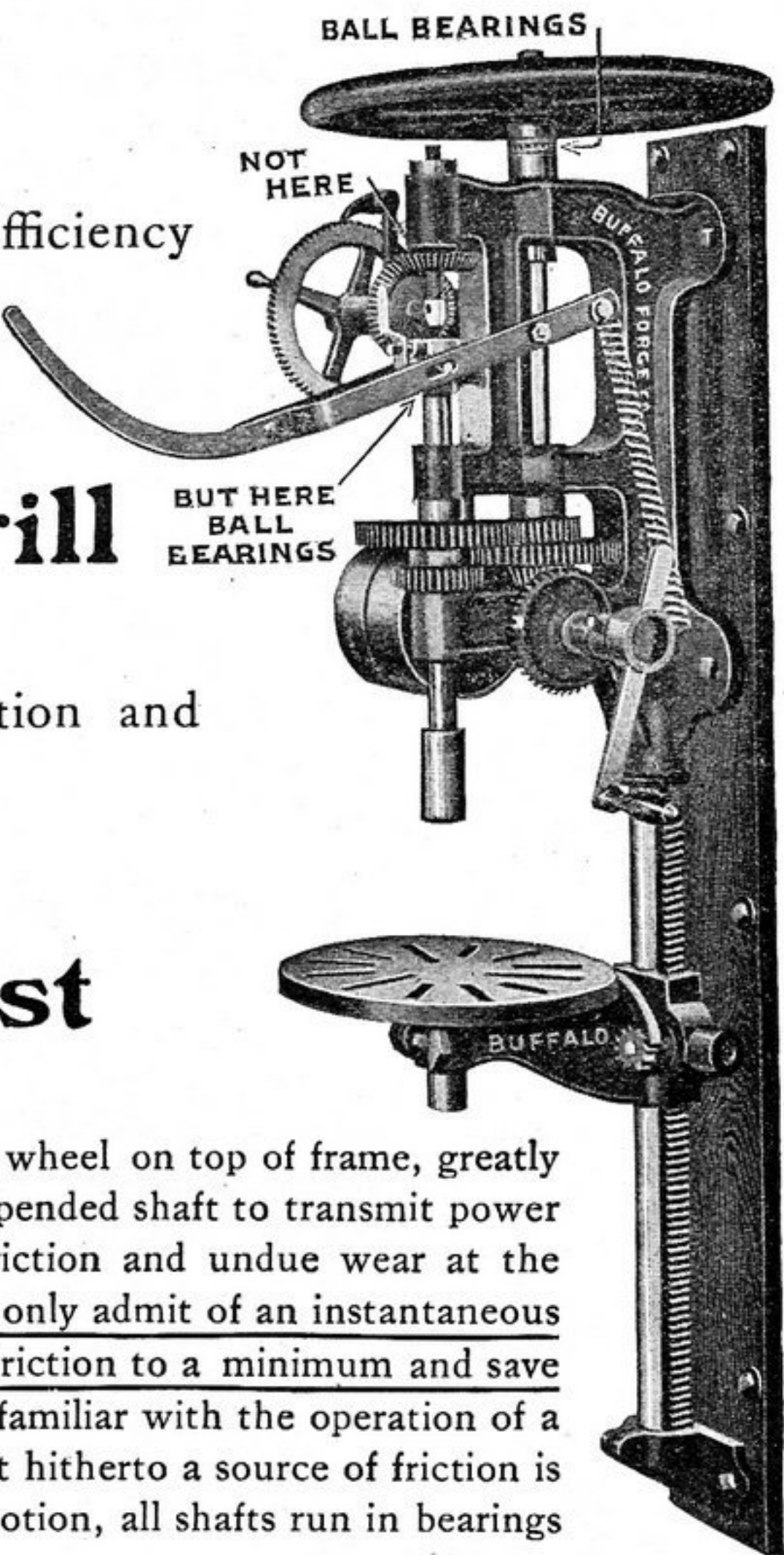
Look at the cut! Read the description and
note that we offer it to you

At Lowest Cost

The ball bearings placed just beneath the fly wheel on top of frame, greatly reduces friction at the proper point, leaving a suspended shaft to transmit power to the back gears with no end thrust to cause friction and undue wear at the lower end of shaft. Ball bearings at this point not only admit of an instantaneous disconnection for lever feed, but they also reduce friction to a minimum and save about 33⅓ per cent of power. Even to those unfamiliar with the operation of a drill, the mere presence of ball bearings at a point hitherto a source of friction is an assurance of easy running. There is no lost motion, all shafts run in bearings bored and reamed in the solid frame.

No. 90 Drill is fitted with a spindle bored for 41/64 straight shank drills and chucks. Two-speed automatic feed. Hand feed wheel is placed where it can be easily reached and manipulated. Geared up to feed screw, giving quick motion to drill spindle. Back gears thrown in or out without use of tools. Platen is quickly adjustable and can be securely clamped in any position. A 1¼-inch hole is easily drilled by hand.

For countersinking, wood boring and light work in general, a quicker and handier feed than the ordinary wheel and screw is desirable. This result is obtained in the Buffalo No. 90 Drill by the lever attachment shown on this page. It is strong and simple, and can be used in connection with the regular feed.



Guaranteed for 5 years against cost of repairs due to wear

PRICES

Number 90	Lever Feed. Hand Power	\$55.00
" 91	No. 90 with tight and loose pulleys	60.00
" 92	No. 91 with countershaft	70.00
" 93	No. 90 with cone pulley	60.00
" 94	No. 93 with countershaft	70.00

Buffalo Ball Bearing Drills

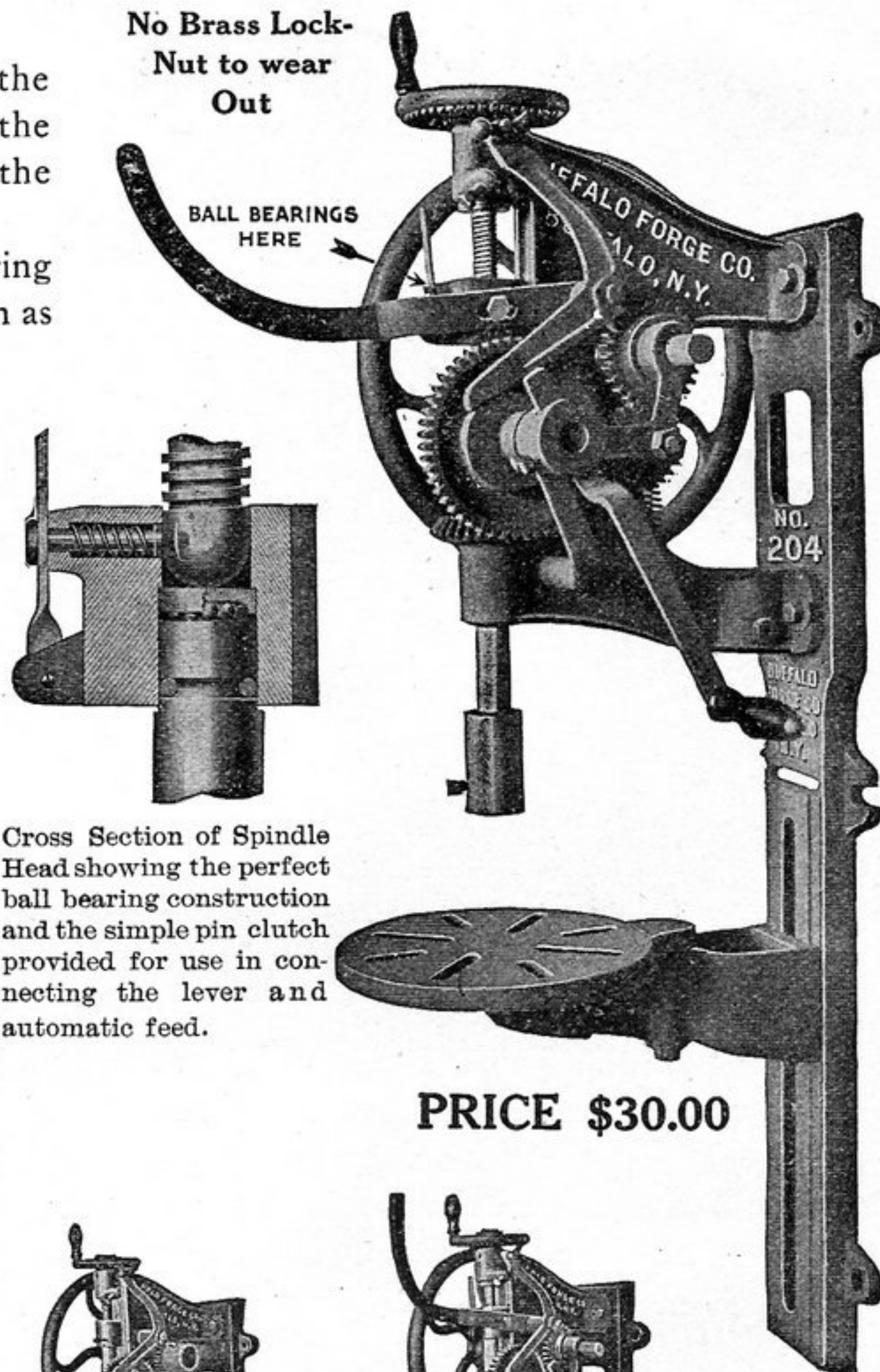
No. 204

The Ball Bearings are placed at the point of highest speed, which reduces the friction and **saves 33⅓ per cent.** of the power.

The Buffalo Iron Back Ball Bearing Drills have the same features of design as listed for the Wood Back Drills. They are provided with a rigid, ribbed iron back, however, as some prefer it on account of the increased rigidity of the Machine.

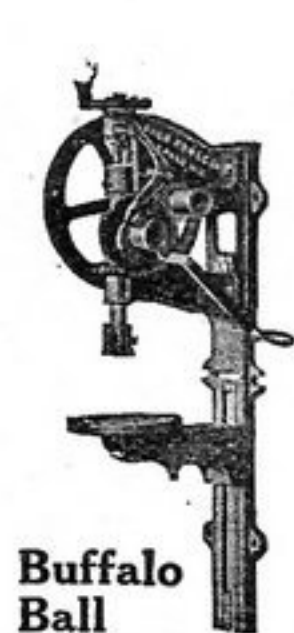
Five Years' Guarantee

The Buffalo 1907 Ball Bearing Drills are guaranteed; 1st, against cost of repairs, due to wear for five years from date of purchase. 2nd, to be the best in design, material and workmanship that mechanical genius can produce.

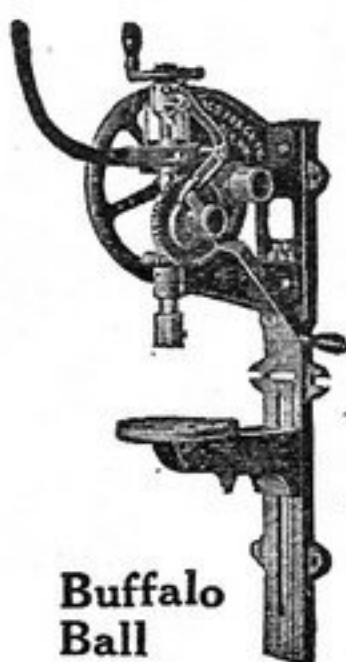


Cross Section of Spindle Head showing the perfect ball bearing construction and the simple pin clutch provided for use in connecting the lever and automatic feed.

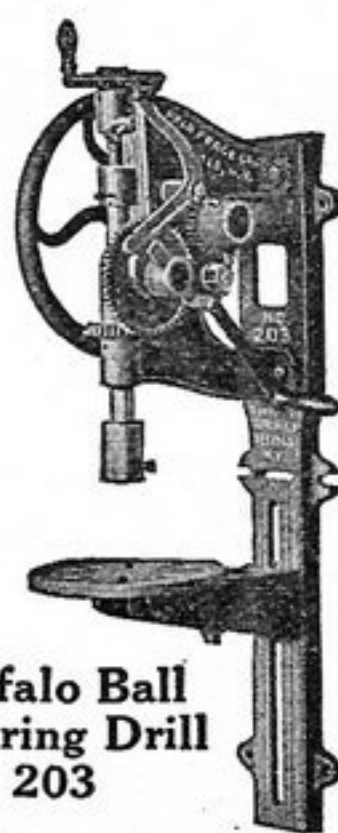
PRICE \$30.00



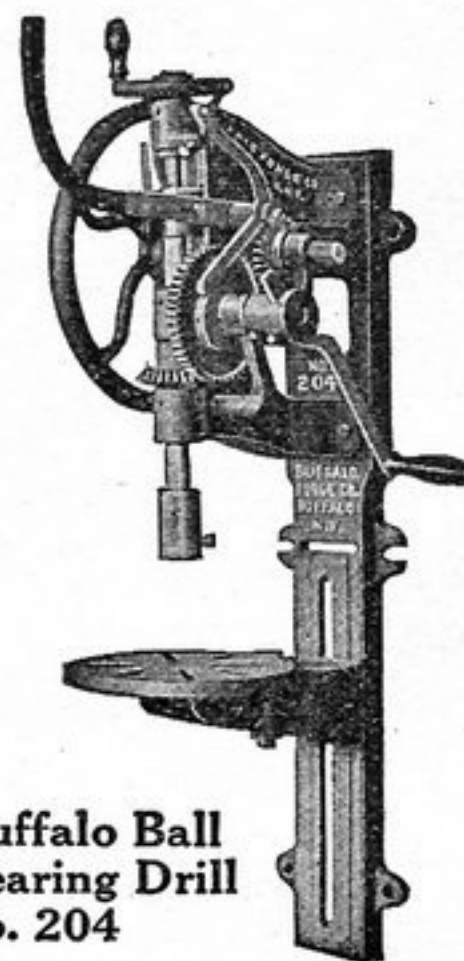
Buffalo Ball Bearing Drill No. 201



Buffalo Ball Bearing Drill No. 202



Buffalo Ball Bearing Drill No. 203



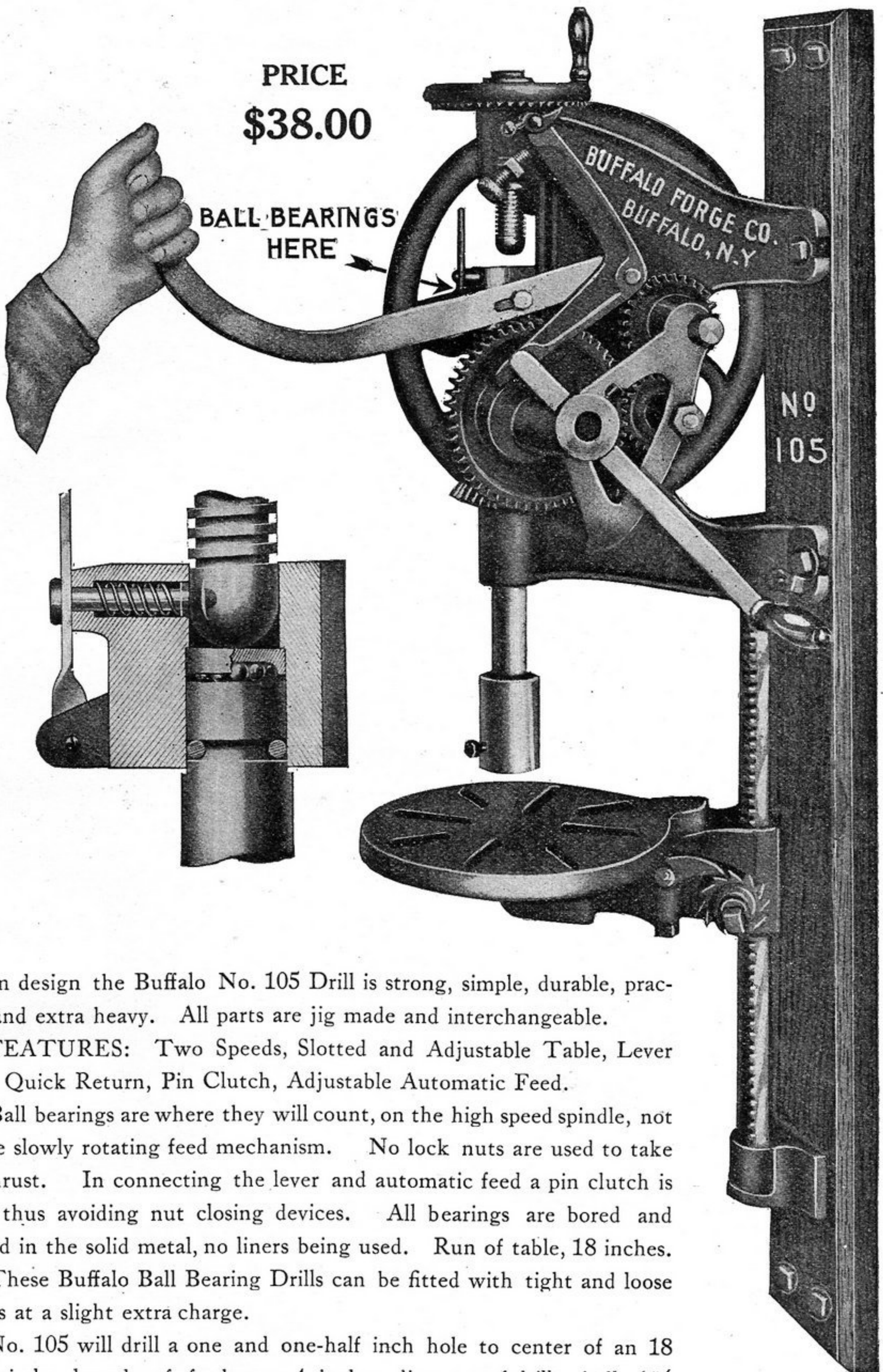
Buffalo Ball Bearing Drill No. 204

The spindles on Drills Nos. 201-204 are bored to take $\frac{1}{2}$ in. straight shank drill bits. On special order they will be bored for $\frac{5}{8}$ in. or $\frac{41}{64}$ in. Pulleys $5\frac{1}{2}$ in. diameter with Drills Nos. 201 and 202, and 8 in. diameter with Drills Nos. 203-204 at extra cost.

Drill	Capacity	Length Feed Run	Diameter Drill Spdle	Lth. Drill over all	Weight	Price	With Tight & Loose Pulley
201	1 in. hole to center 18 in. circle	$3\frac{1}{4}$ in.	$1\frac{1}{8}$ in.	44 in.	90 lbs.	\$23.00	\$3.00 extra
202	1 in. hole to center 18 in. circle	$3\frac{1}{4}$ in.	$1\frac{1}{8}$ in.	44 in.	92 lbs.	25.00	4 00 extra
203	$1\frac{1}{2}$ in. hole to center 23 in. circle	4 in.	$1\frac{1}{4}$ in.	48 in.	140 lbs.	28.00	4.00 extra
204	$1\frac{1}{2}$ in. hole to center 23 in. circle	4 in.	$1\frac{1}{4}$ in.	50 in.	145 lbs.	30.00	4.00 extra

Buffalo Ball Bearing Drills No. 105

PRICE
\$38.00



In design the Buffalo No. 105 Drill is strong, simple, durable, practical and extra heavy. All parts are jig made and interchangeable.

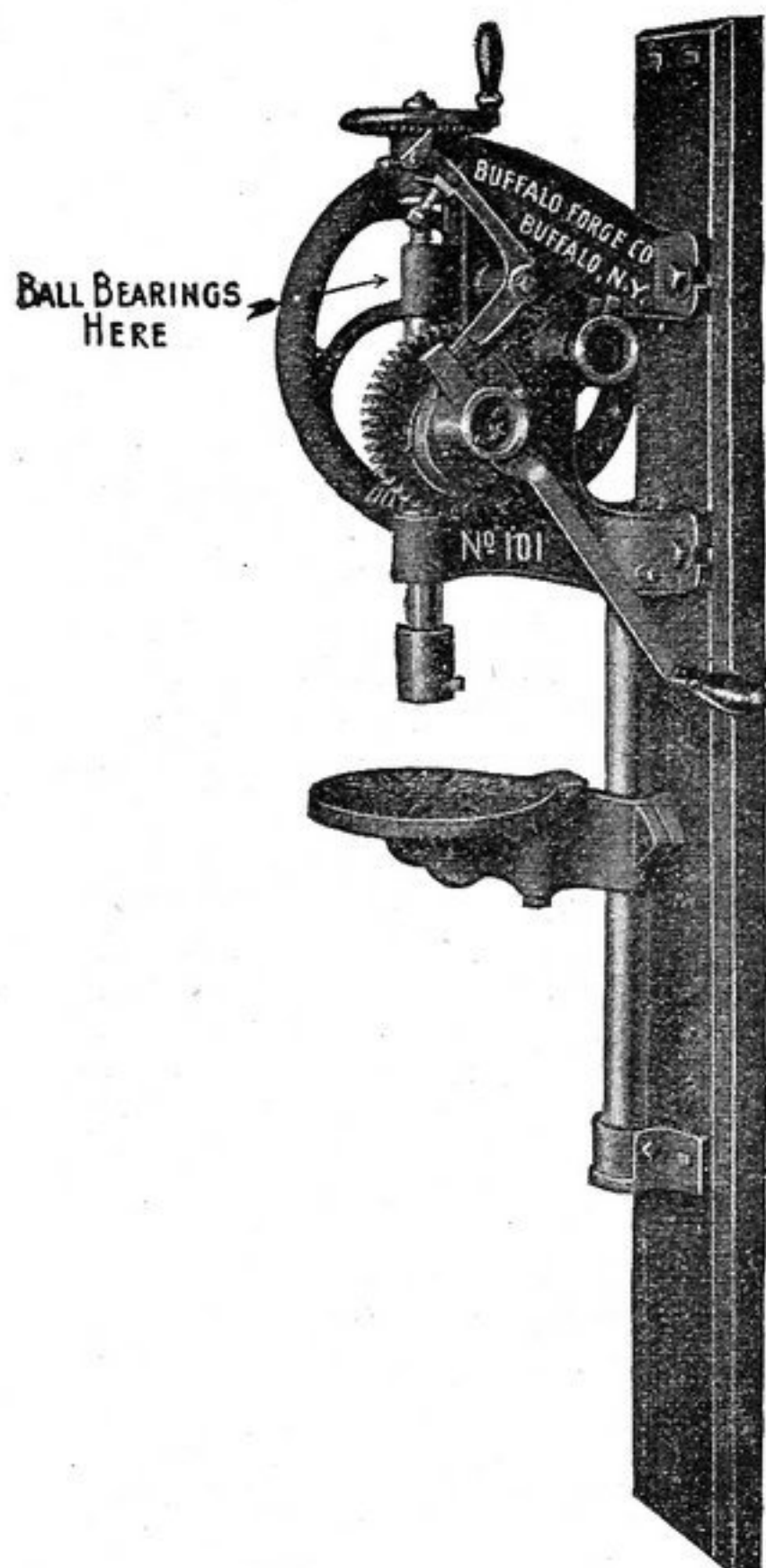
FEATURES: Two Speeds, Slotted and Adjustable Table, Lever Feed, Quick Return, Pin Clutch, Adjustable Automatic Feed.

Ball bearings are where they will count, on the high speed spindle, not on the slowly rotating feed mechanism. No lock nuts are used to take the thrust. In connecting the lever and automatic feed a pin clutch is used, thus avoiding nut closing devices. All bearings are bored and reamed in the solid metal, no liners being used. Run of table, 18 inches.

These Buffalo Ball Bearing Drills can be fitted with tight and loose pulleys at a slight extra charge.

No. 105 will drill a one and one-half inch hole to center of an 18 inch circle; length of feed run 4 inches; diameter of drill spindle $1\frac{1}{4}$ inches; length of drill 50 inches; weight 145 pounds; price \$38.00, with pulleys \$4.00 extra.

Ball Bearing Drills Nos. 101—104



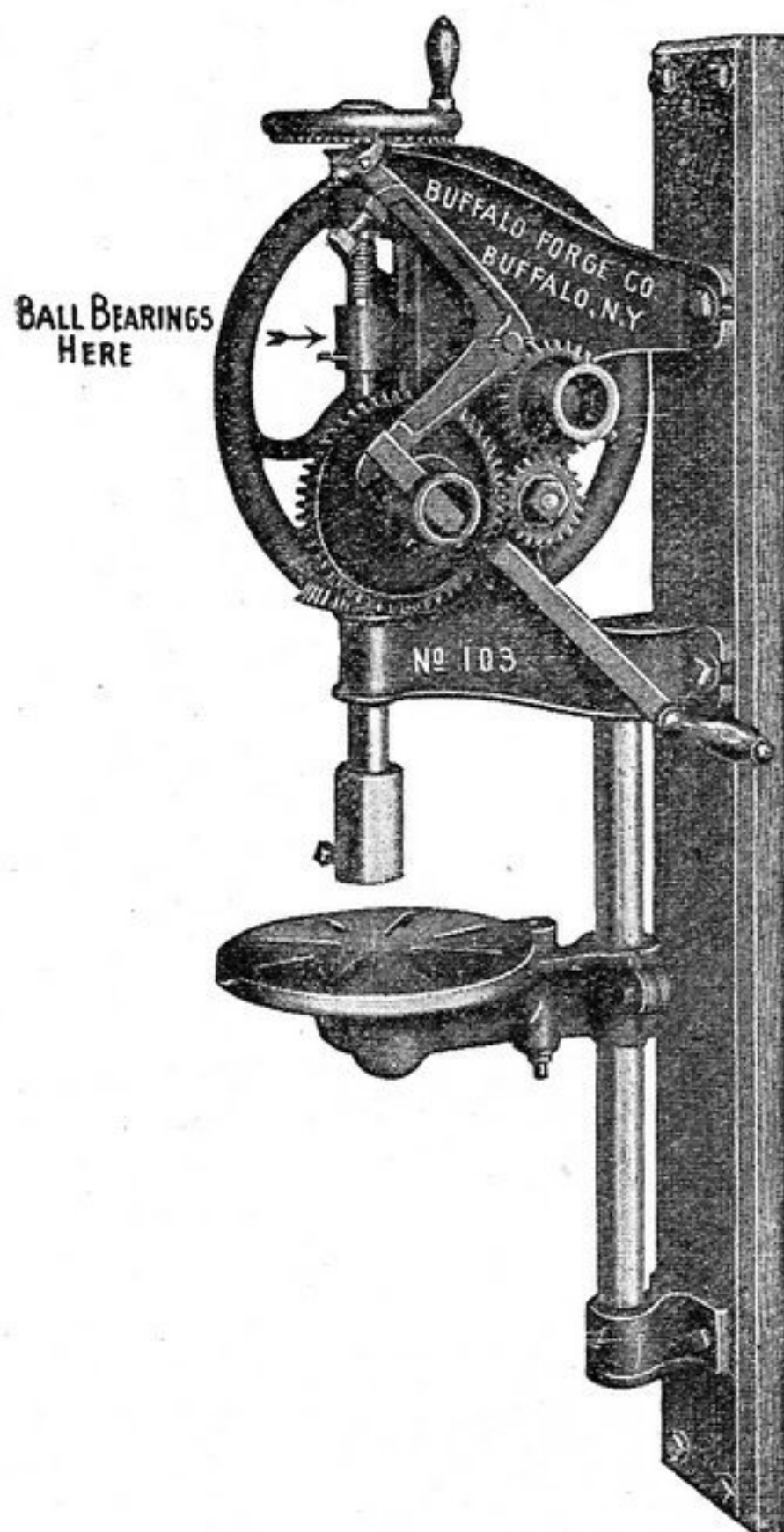
The spindles on Drills Nos. 101-104 are bored to take $\frac{1}{2}$ inch straight shank drill bits. On special order they will be bored for $\frac{5}{8}$ or $\frac{3}{4}$ inch.



Pulleys $5\frac{1}{2}$ inch diameter with Drills Nos. 101 and 102, and 8 inch diameter with Drills Nos. 103 and 104 at extra cost.

No. 101 Price \$23.00

Drills 1 inch hole to center 13 inch circle; length of feed run $3\frac{1}{4}$ inches; diameter of drill spindle $1\frac{1}{8}$ inches; length of drill 46 inches; weight 98 pounds; price \$23.00; pulleys \$3.00 extra.



No. 102 Price \$25.00

Drills 1 inch hole to center 13 in. circle; length feed run $3\frac{1}{4}$ in; diameter drill spindle $1\frac{1}{8}$ inches; length drill 46 in; weight 100 pounds; price \$25.00; pulleys \$4.00 extra.

No. 103. Price \$28.00

Drills $1\frac{1}{4}$ inch hole to center 18 inch circle; length feed run 4 inches; diameter drill spindle $1\frac{1}{4}$ inches; length drill 50 in; weight 135 pounds; price \$28.00; pulleys \$4 extra.

No. 104 Price \$30.00

Drills $1\frac{1}{2}$ inch hole to center 18 inch circle; length speed run 4 inches; diameter drill spindle $1\frac{1}{4}$ inches; length drill 50 inches; weight 140 pounds; price \$30.00; pulleys \$4.00 extra.



Buffalo Ball Bearing Drills Nos. 95-96

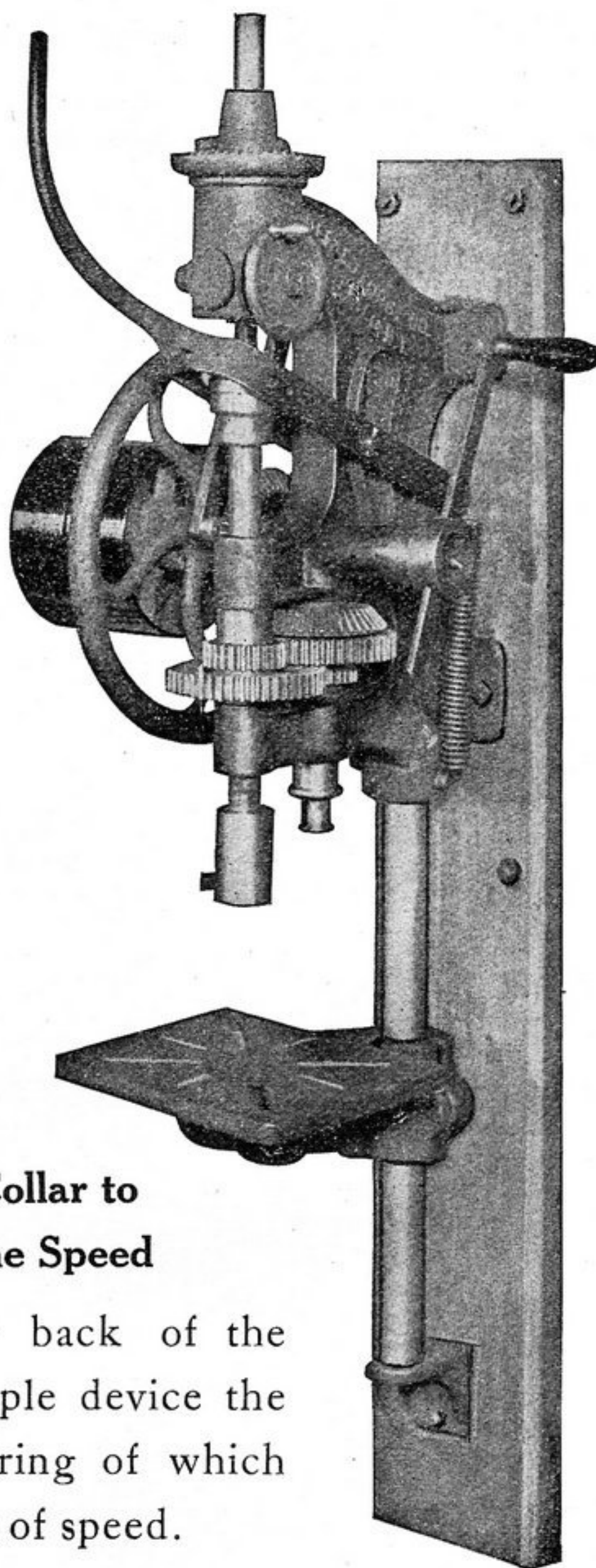
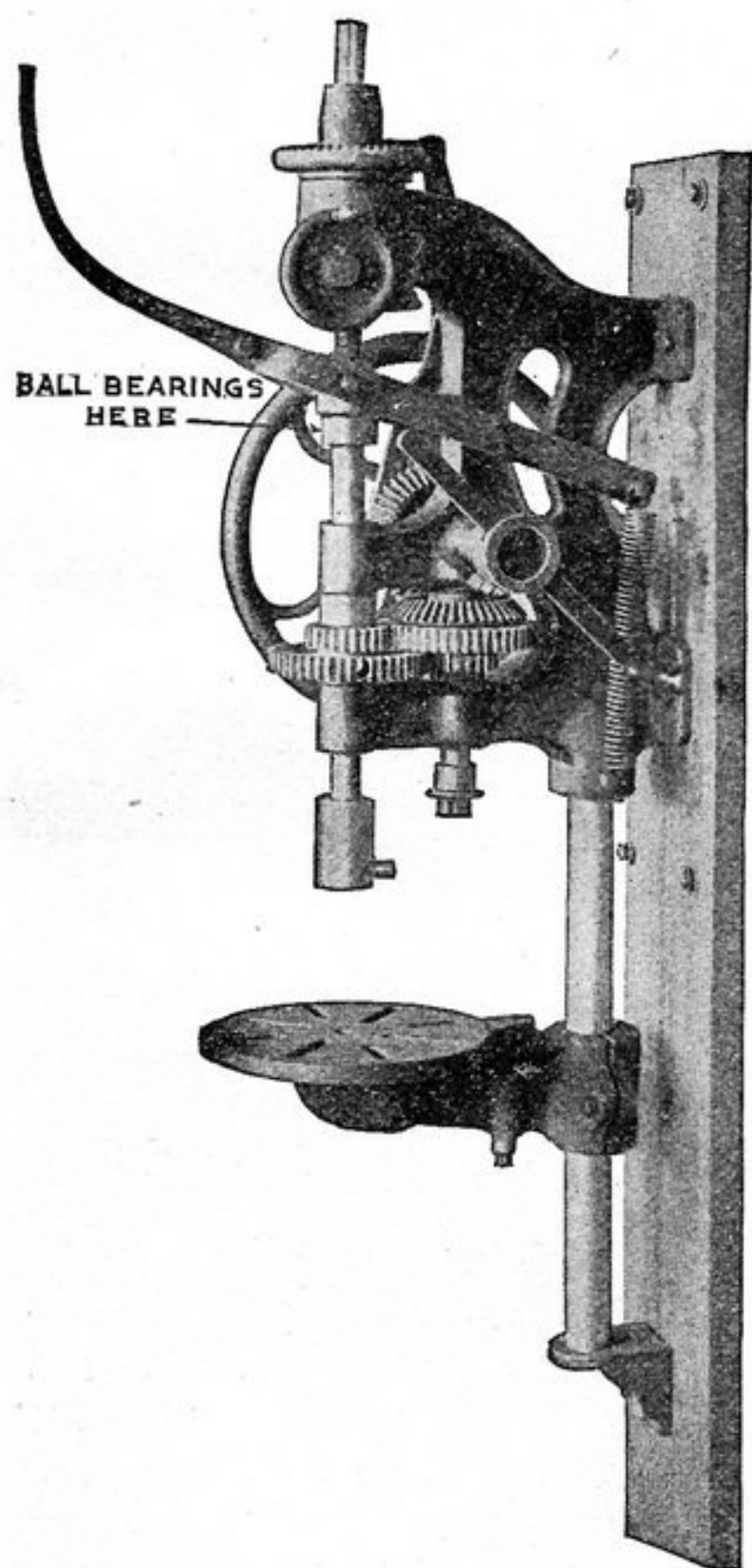
The Most Perfect Drill on the Market

THINK OF IT!

Here is a drill that operates without the aid of tools—instead are found simple devices that control the operation.

Turn a Wheel to Change the Feed

A quarter turn of a small wheel—in line with the hand lever—releases or engages the automatic feed. The return is instantaneous.



Shift a Collar to Change the Speed

Immediately back of the drill bit is a simple device the raising or lowering of which effects a change of speed.

The workmanship on this drill and the materials used throughout, measure in every way up to "Buffalo Standard". The driving gears are all machined and the teeth mill finished. In this, like other Buffalo Ball Bearing Drills, the bearings are at the point of highest speed which reduces the friction and saves power. All shafts run in bearings bored and reamed in the solid frame. No babbitt linings to wear out.

Length 51 inches; Run of feed 5 inches; Capacity $1\frac{1}{2}$ inch hole to center of 18 inch circle; Diameter of spindle $1\frac{1}{4}$ inches; Run of table 20 inches; Weight 225 pounds.

No. 95 drills, 18 inch circle,
No. 96 drills, 21 inch circle,

\$30.00 } Power
36.00 } \$4.00 Extra

Buffalo Drills Nos. 150, 151, 152 and 106

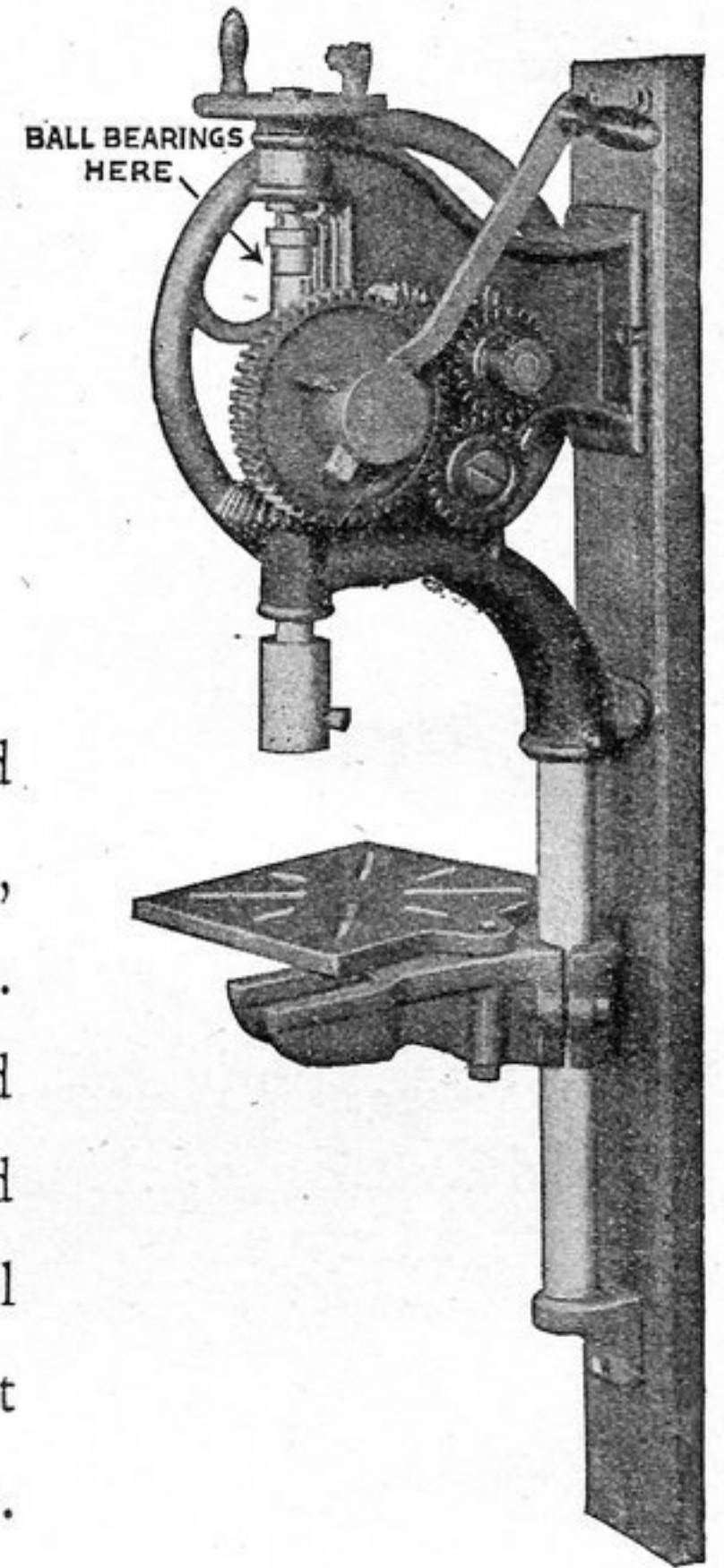
Here are the Greatest Values

Ever Offered in

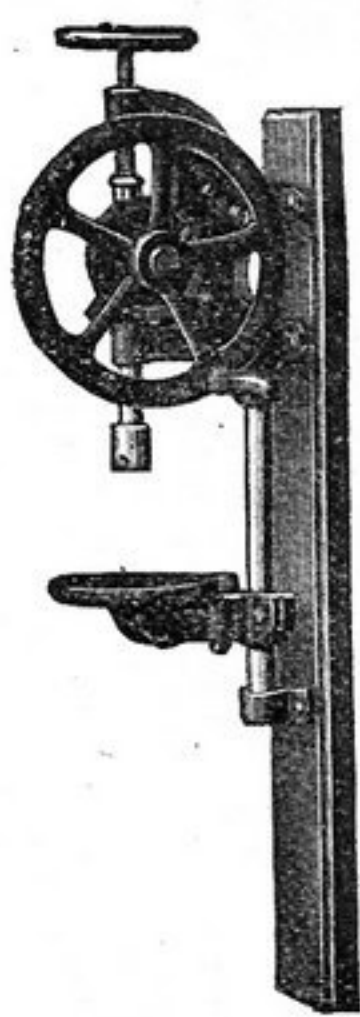
BLACKSMITHS' DRILLS

The same money won't buy their equal
in design, material, workmanship or efficiency.

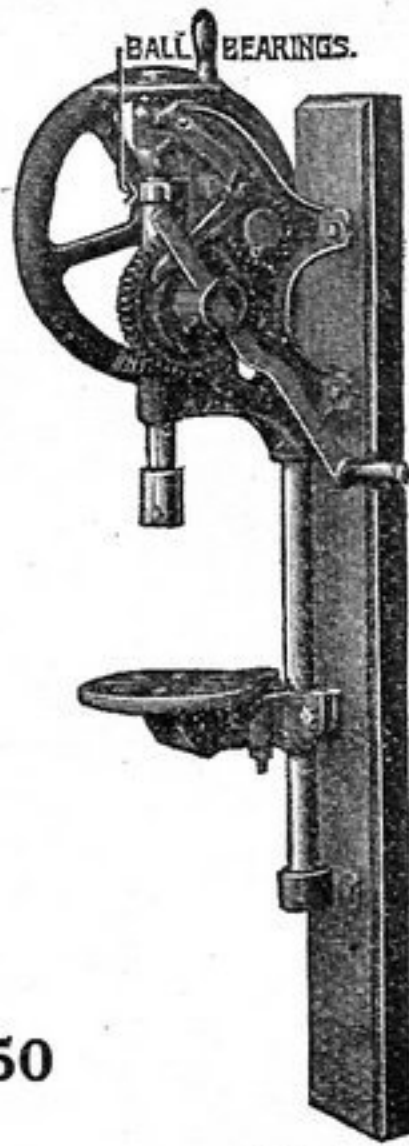
The great demand for a line of drills adapted to a wide variety of uses and at moderate prices, has resulted in four new models as shown herewith. The only way by which this could be done and still maintain the high class workmanship and superior quality of material that distinguishes all Buffalo products, was to make them up in great quantities and thus lower the cost of production.



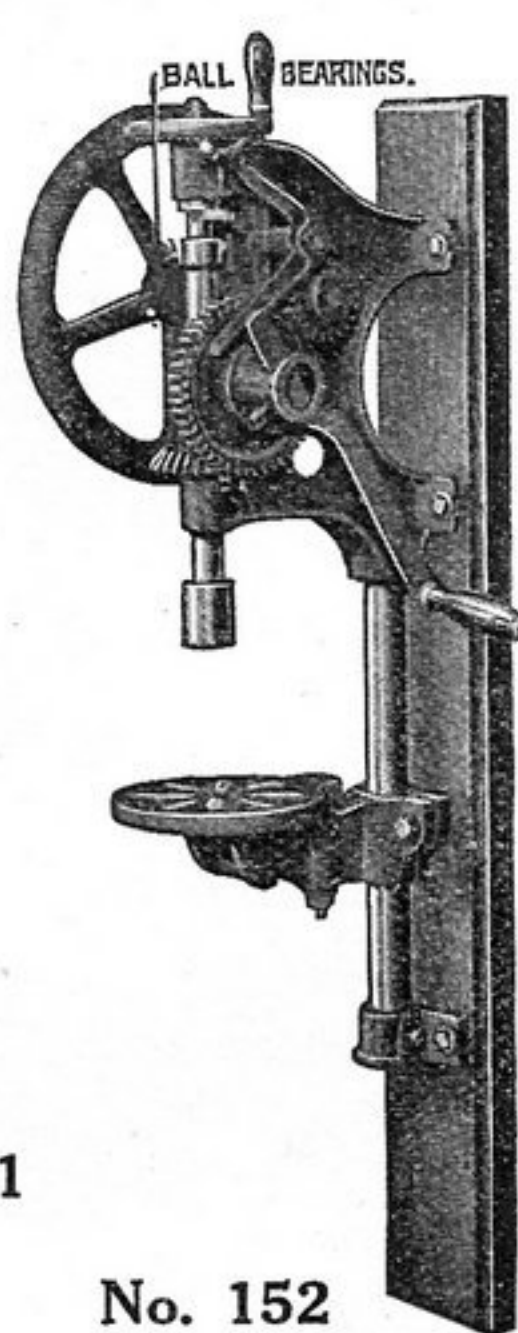
No. 106



No. 150



No. 151



No. 152

Although we have succeeded in bringing out ball bearing drills at these low prices, yet nothing has been slighted or any substitution made of inferior parts, and we don't hesitate to

Guarantee these Drills for Five Years Against Cost of Repairs

Due to Wear.

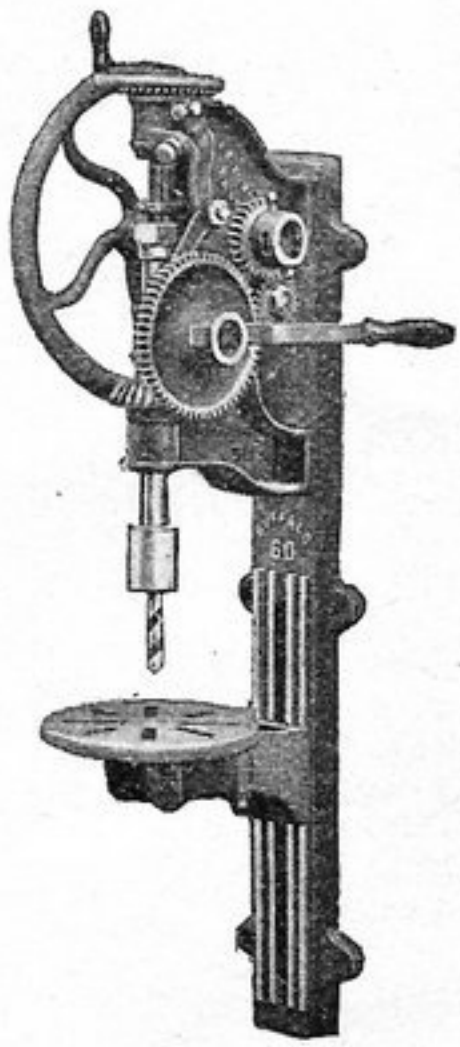
No.	Run of Feed	Capacity	Run of Table	Diameter of Drill Spindle	Weight	Price
150	3 in.	1 inch to center 12 inch circle	12 in.	1 1/8 in.	60 lbs.	\$ 7.50
151	3 in.	1 inch to center 12 inch circle	12 in.	1 1/8 in.	65 lbs.	8.50
152	3 in.	1 1/4 inch to center 14 inch circle	12 in.	1 1/8 in.	70 lbs.	10.00
106	5 in.	1 1/2 inch to center 18 inch circle	15 in.	1 1/4 in.	200 lbs.	20.00

Buffalo Blacksmiths' Drills

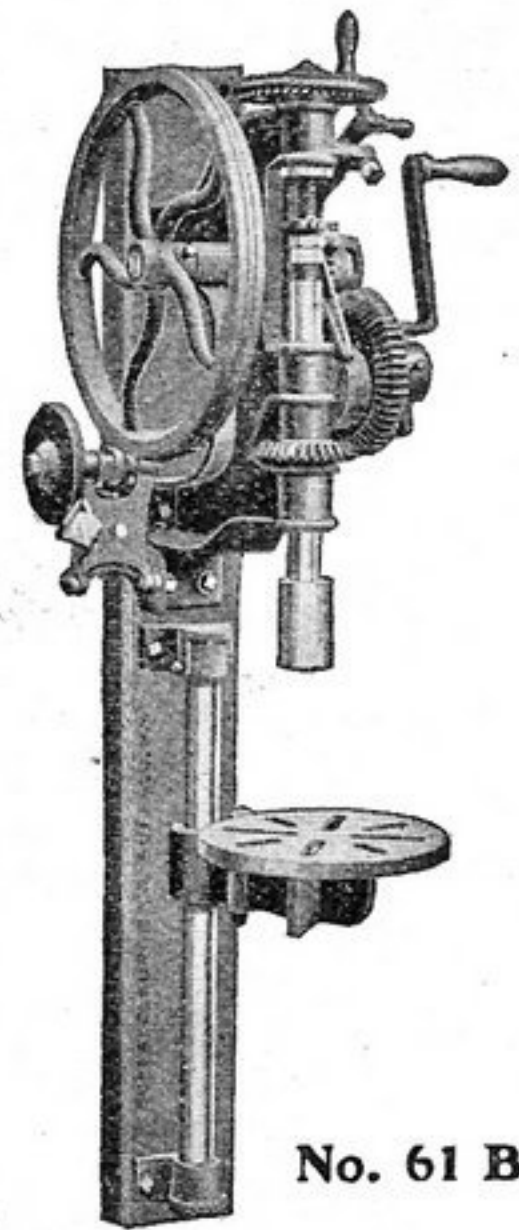
Latest Patterns

We cover the requirements of the smallest smithy as well as the largest manufacturing establishment.

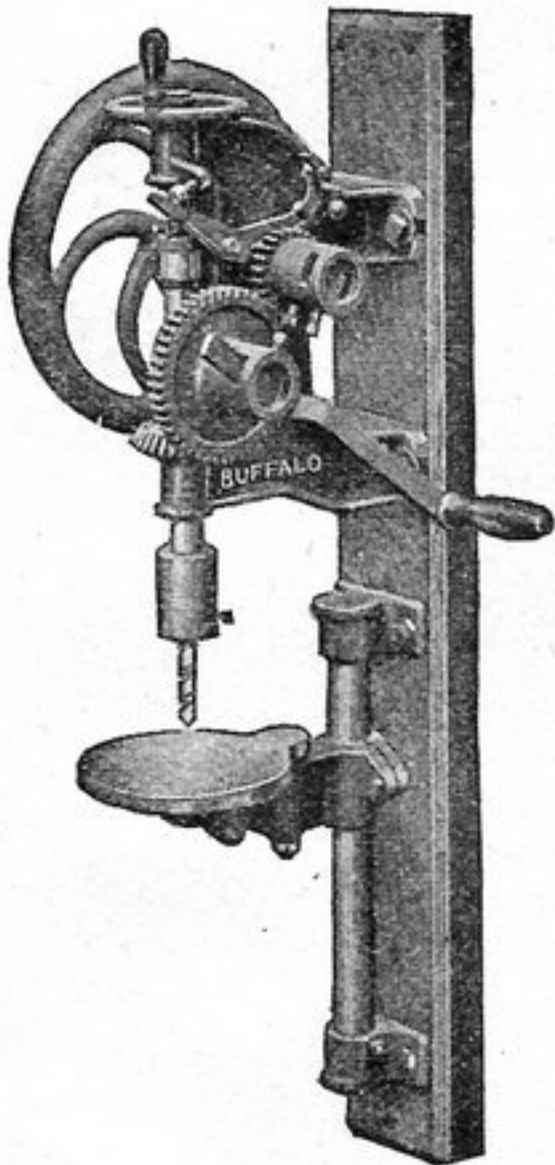
BE SURE THAT BUFFALO TOOLS ARE THE ONES YOU BUY. We have a tool for each kind of work.



No. 60



No. 61 B



No. 68

No. 60. Length, 42 inches; run of feed, 4 inch; capacity, $1\frac{1}{2}$ inch hole to center of $16\frac{1}{2}$ inch circle. Wood back. Hand power only. Weight, 135 lbs.

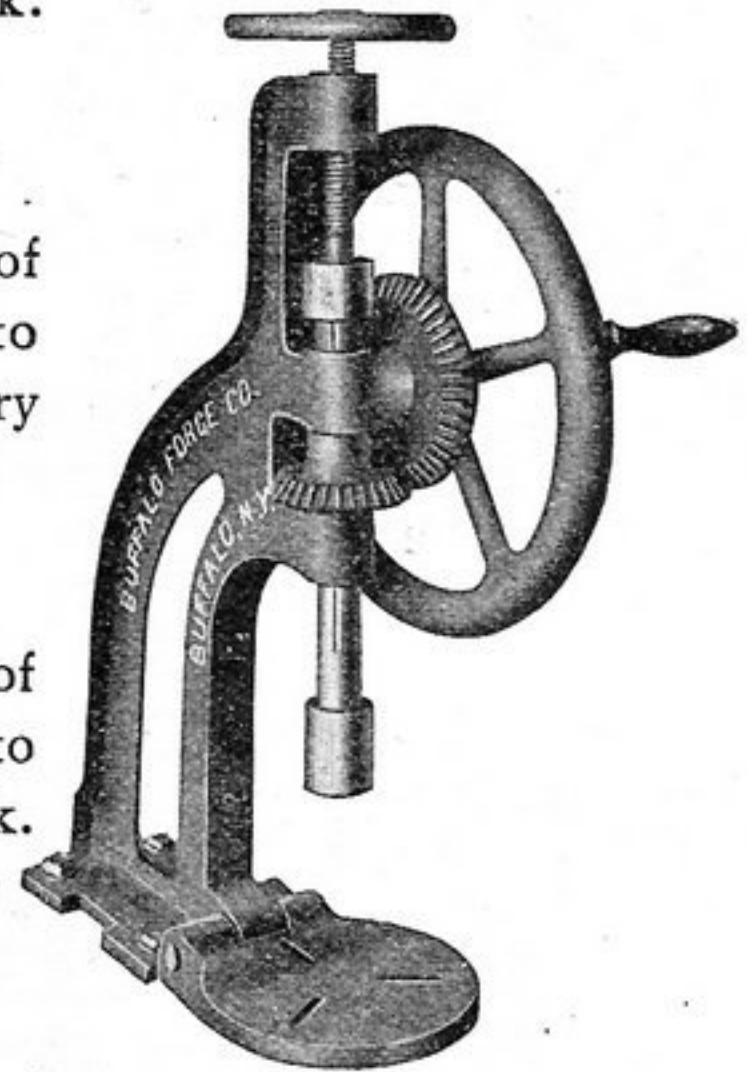
Price, - - - - - \$32.00

No. 61 B. Length, 54 inches; run of feed, 4 inches; capacity, $1\frac{1}{2}$ inch hole to center of $16\frac{1}{2}$ inch circle. With emery wheel. Weight, 125 lbs.

Price, - - - - - \$34.00

No. 68. Length, 44 inches; run of feed, $3\frac{1}{4}$ inches; capacity, 1 inch hole to center of 15 inch circle. Wood back. Hand power only. Weight, 100 lbs.

Price, . - - - - \$22.00



No. 69

No. 69. Length, 35 inches; run of feed, 3 inches; capacity, $\frac{7}{8}$ inch hole to center of 10 inch circle. Weight, 54 lbs.

Price, - - - - - \$12.50

No. 71. Length, 44 inches; run of feed, 5 inches; capacity, $1\frac{1}{4}$ inch hole to center of 11 inch circle. Automatic feed, triple gear. Weight, 130 lbs.

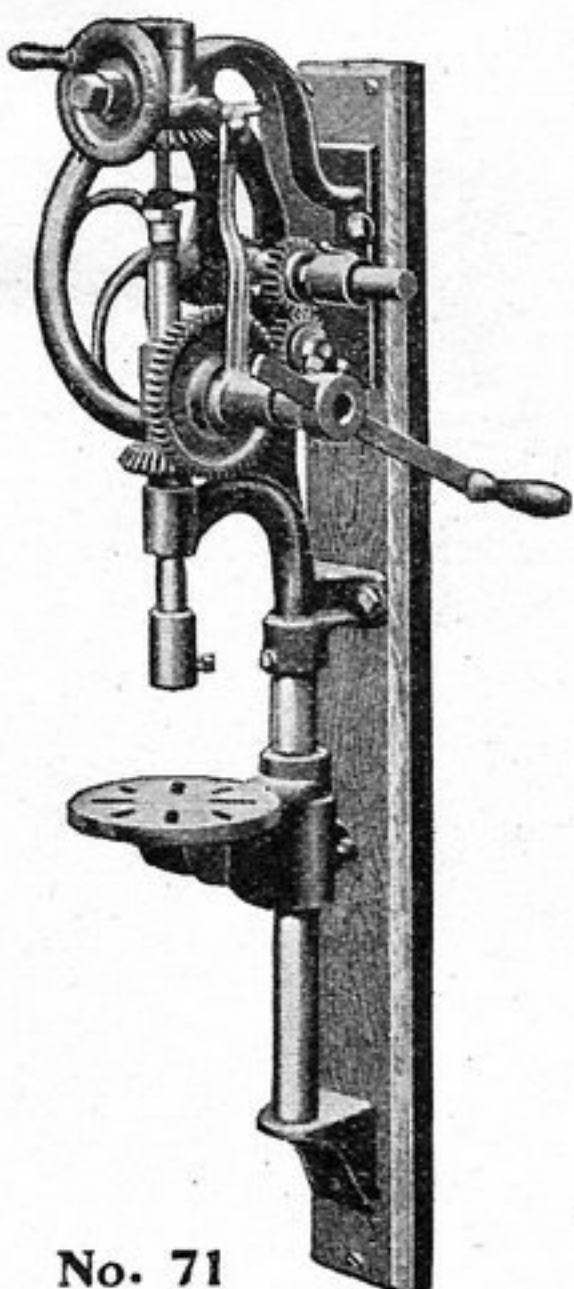
Price, - - - - - \$36.00

No. 75. Length, 54 inches; run of feed, 5 inches; capacity, $1\frac{1}{4}$ inch hole to center of 15 inch circle. Automatic feed, triple gear, tight and loose pulleys for power. Weight, 210 pounds.

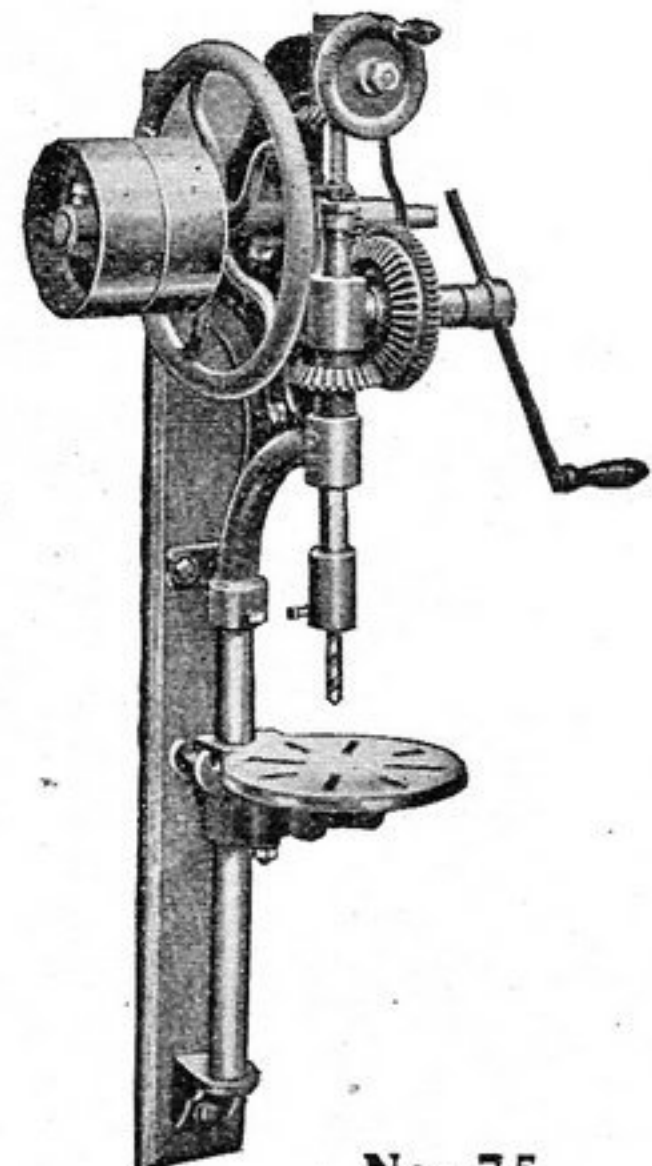
Price, - - - - - \$48.00

No. 74. for hand power only, with emery wheel. Weight, 200 pounds.

Price - - - - - \$48.00



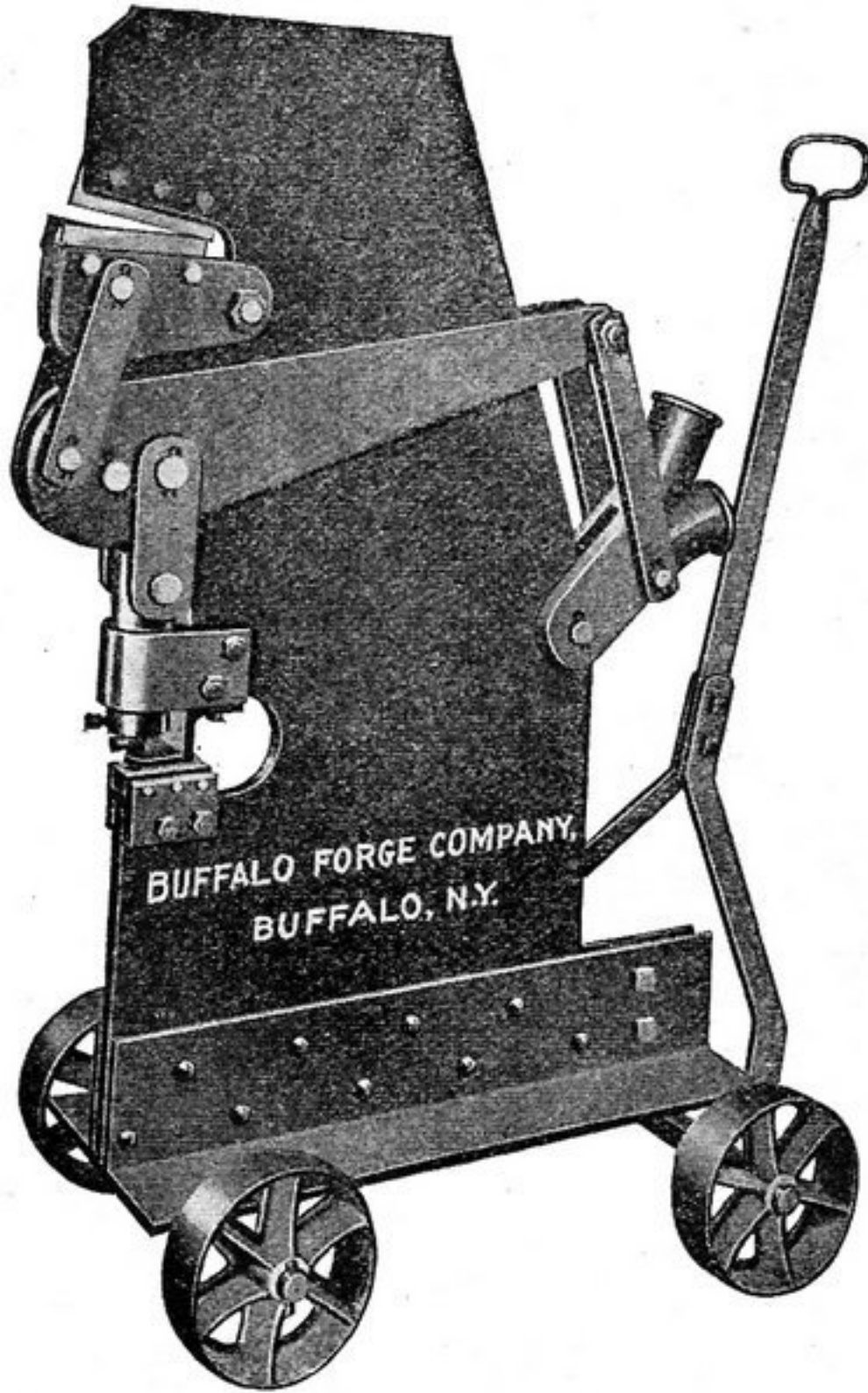
No. 71



No. 75

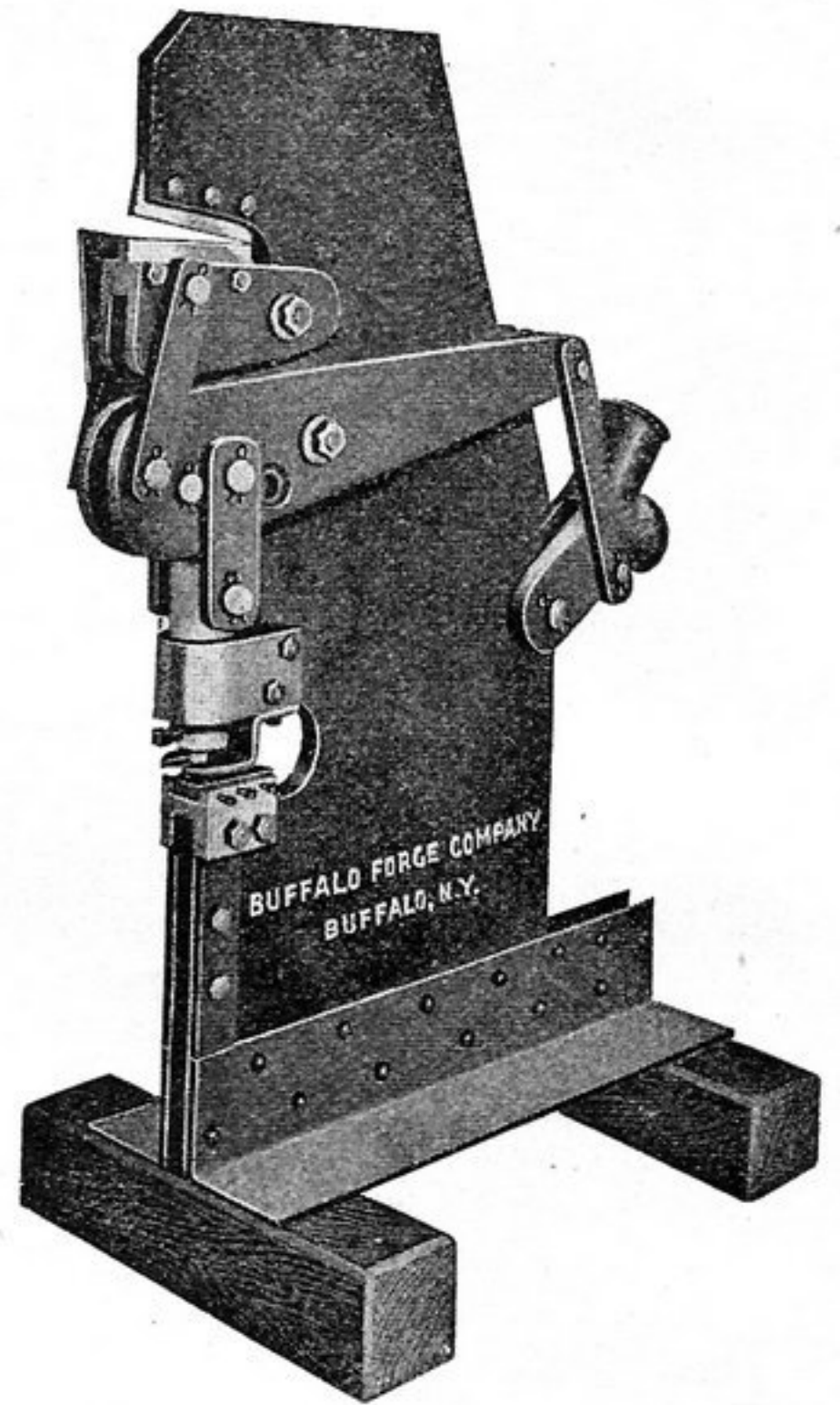
Buffalo Armor Plate Punches and Shears

For Sheet Metal Workers, Cornice Shops, Boiler and Tank Work.



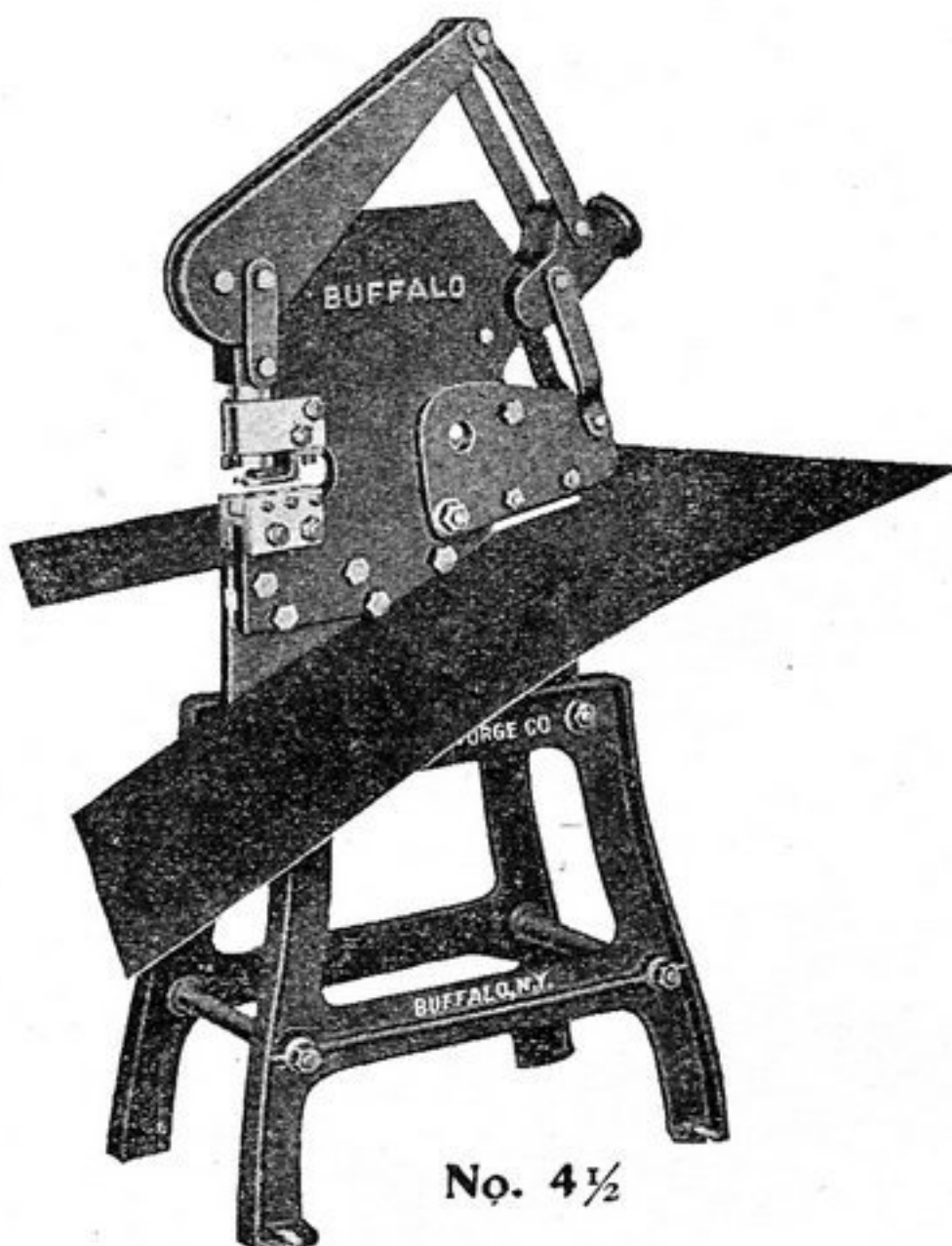
No. 5

This high power portable Punch and Shear No. 5 is built from a single plate of armor steel, the toughest steel known, with all fittings machined from drop forgings **Dependable for the widest range of work of any hand tools on the market**



No. 5

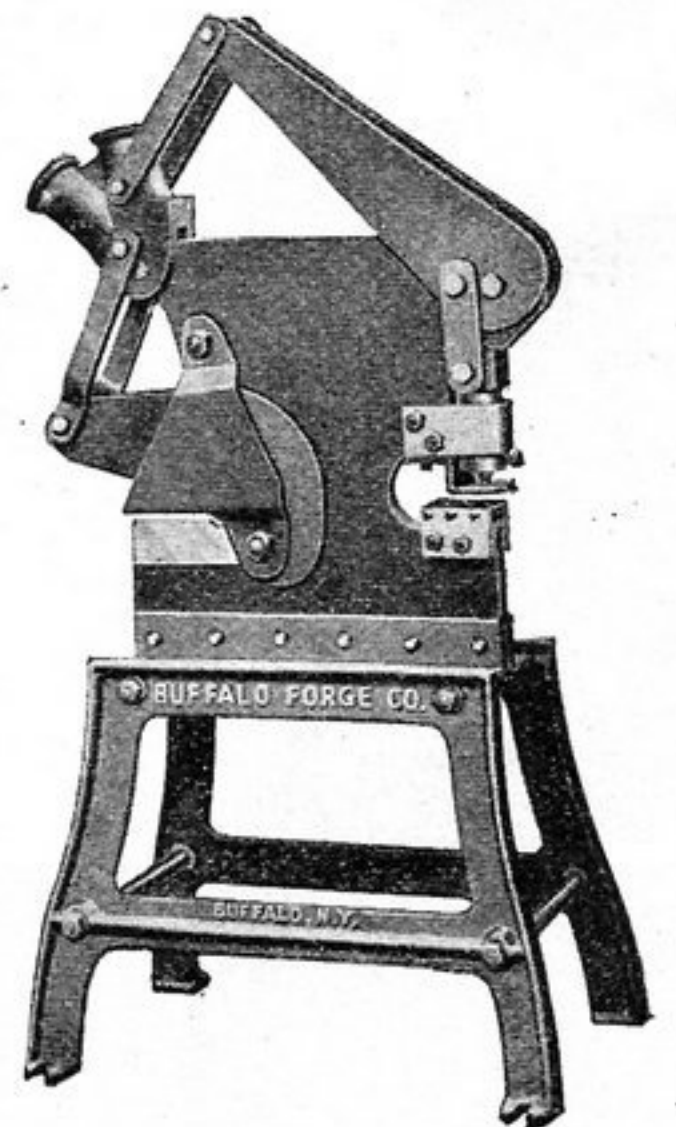
Punches.....	$\frac{3}{4} \times \frac{1}{2}$ inch
Shears	$6 \times \frac{5}{8}$ -inch bar
Depth of throat	7 inches
Height	58 inches
Weight	850 pounds
Weight without truck	725 pounds
Punches and dies furnished.....	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch
Price	\$140.00
Price without truck	\$125.00



No. 4 1/2

PUNCH AND SHEAR No. 4 1/2	
Punch	$\frac{1}{2} \times \frac{3}{8}$
Shear	No. 8 Gauge
Cut round bars	$\frac{3}{4}$ in. to 0
Cut flat bars	$\frac{3}{8} \times 2 \frac{1}{2}$ in.
Height	55 in.
Weight	460 pounds
Punches furnished.....	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ in.
Price	\$115.00

PUNCH AND SHEAR No. 4B	
Punches	$\frac{1}{2} \times \frac{1}{2}$ in.
Shears	$3 \times \frac{5}{8}$ -in. bar
Depth throat.....	5 in.
Height	48 in.
Weight.....	400 pounds
Punches furnished.....	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ in.
Price	\$100.00



No. 4B

Buffalo Armor Plate Punches and Shears



All parts subject to wear are machined from drop forgings and are accurately fitted.

Capacity..... $\frac{1}{4} \times \frac{1}{4}$ inch
Depth throat 4 inches
Weight.....80 pounds
Punches furnished.....
..... $\frac{1}{8}$, $\frac{1}{4}$ inch

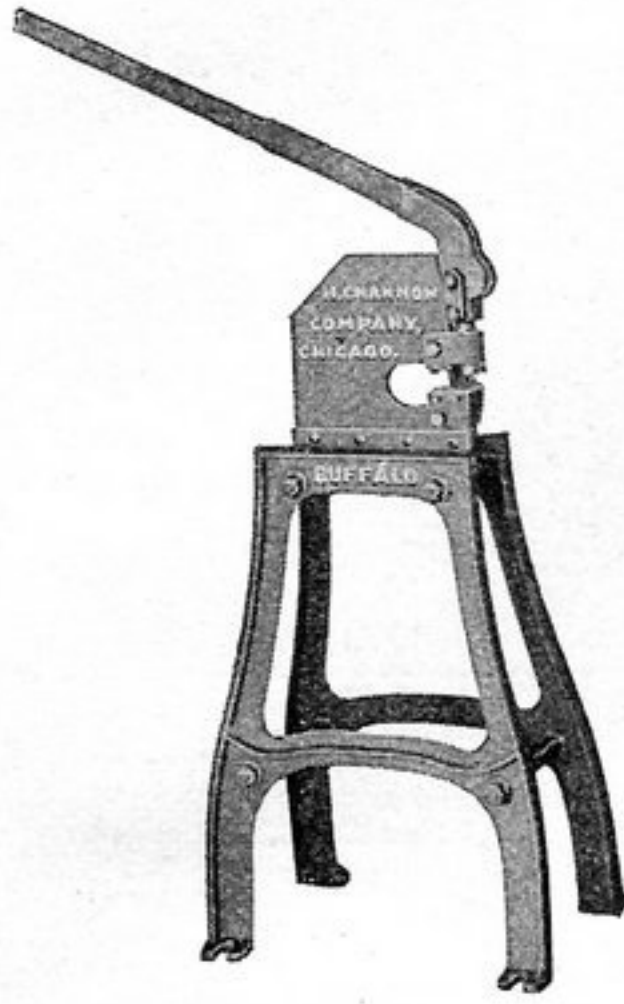
No. 13
Single Plate
Punch
Price, \$40.00



Indispensable for the sheet metal worker, blacksmith or general shop, as well as for workers in light structural steel.

Capacity $\frac{1}{4} \times \frac{1}{4}$ inch
Depth throat 4 inches
Weight.....80 pounds
Punches furnished $\frac{1}{8}$, $\frac{1}{4}$ inch

No. 13B
Armor Plate
Punch
Price, \$40.00



No. 12B

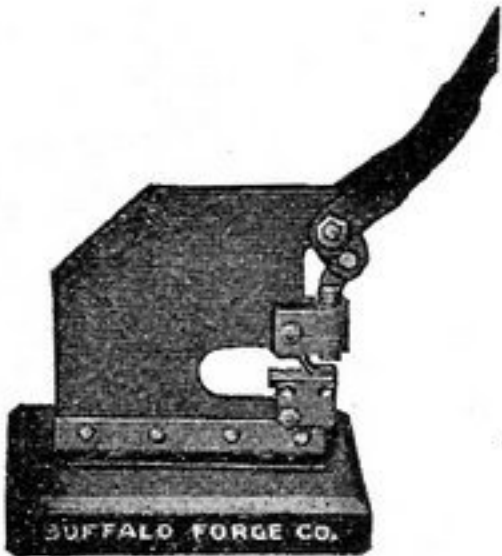
Buffalo Armor Plate Punches Nos. 11 and 12B

No. 11 is a front lever punch but mounted on wood block for bench use.

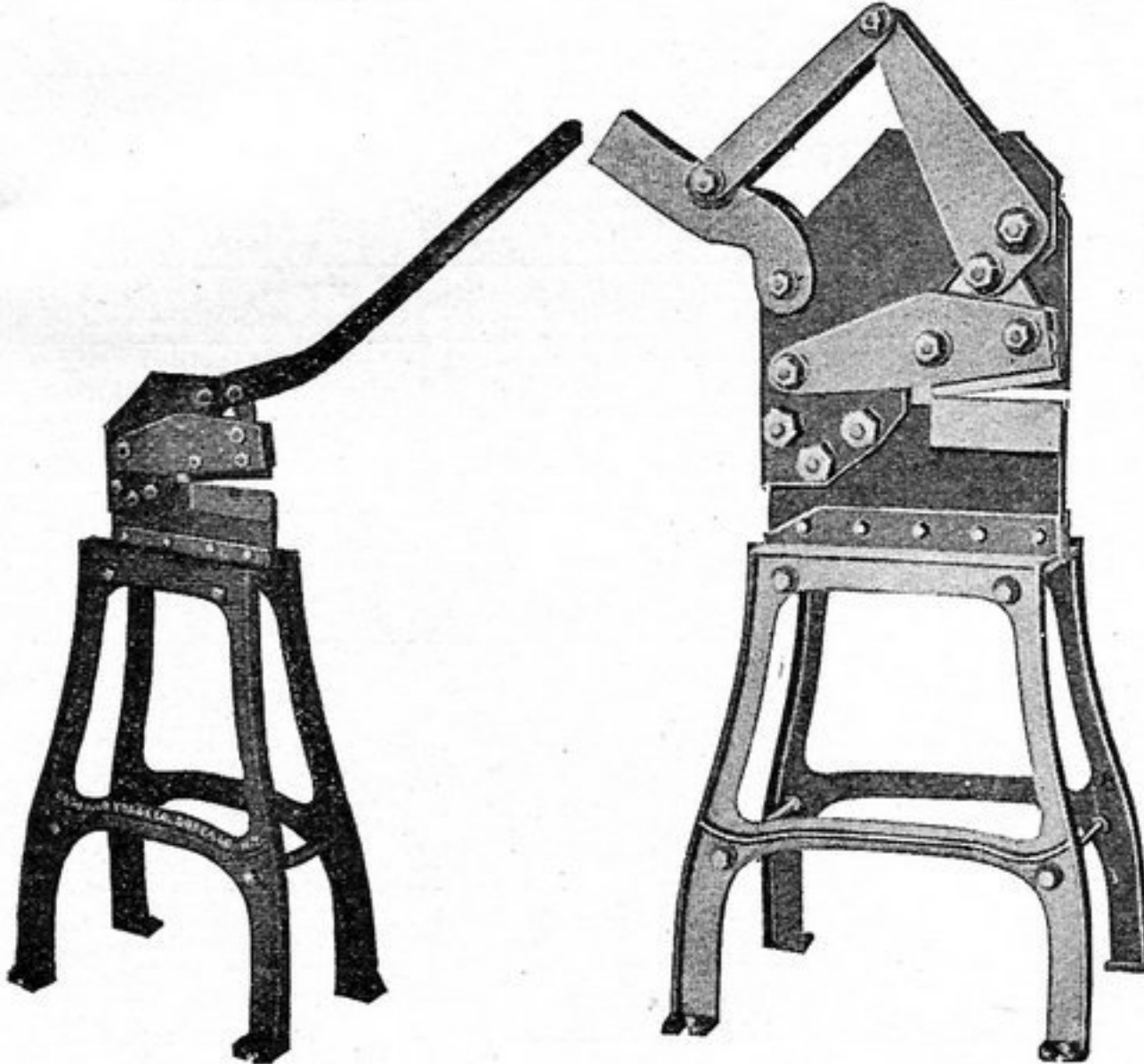
No. 12B—Where plates of large size are to be punched this style with lever working from the rear, is most convenient.

Capacity and Prices

No.	Style	Capacity	Punches Furnished	Weight Lbs.	Depth Throat	Price
11	Front Lever No Stand	$\frac{1}{8} \times \frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	26	4	\$15.00
12B	Rear Lever With Stand	$\frac{1}{8} \times \frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	50	4	20.00



No. 11



No. 0 Shear

No. 3 Shear

Buffalo Slitting Shears

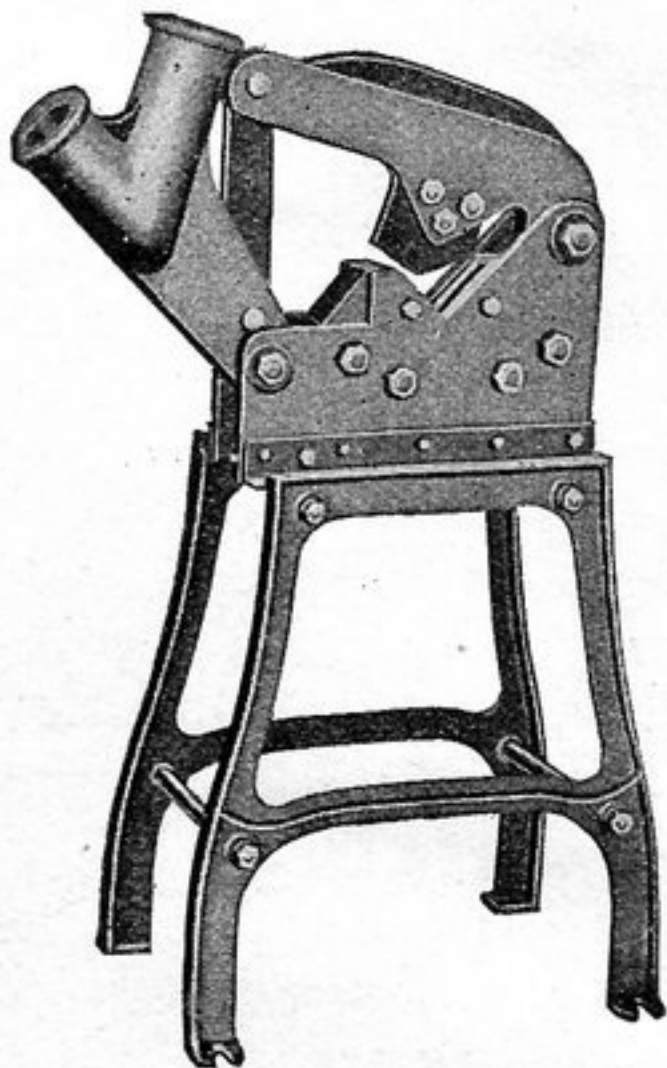
Secure Great Strength with
Little Weight and Space

Dimensions and Prices

No.	Capacity Sheet Metal	Capacity Bar Iron	Weight	Height to Jaws	Price
0	20 gauge	$1\frac{1}{8} \times 3$ in.	50 lbs.	26 $\frac{1}{2}$ in.	\$20.00
3	8 gauge	$\frac{3}{8} \times 2\frac{1}{2}$ in.	220 lbs.	30 in.	80.00

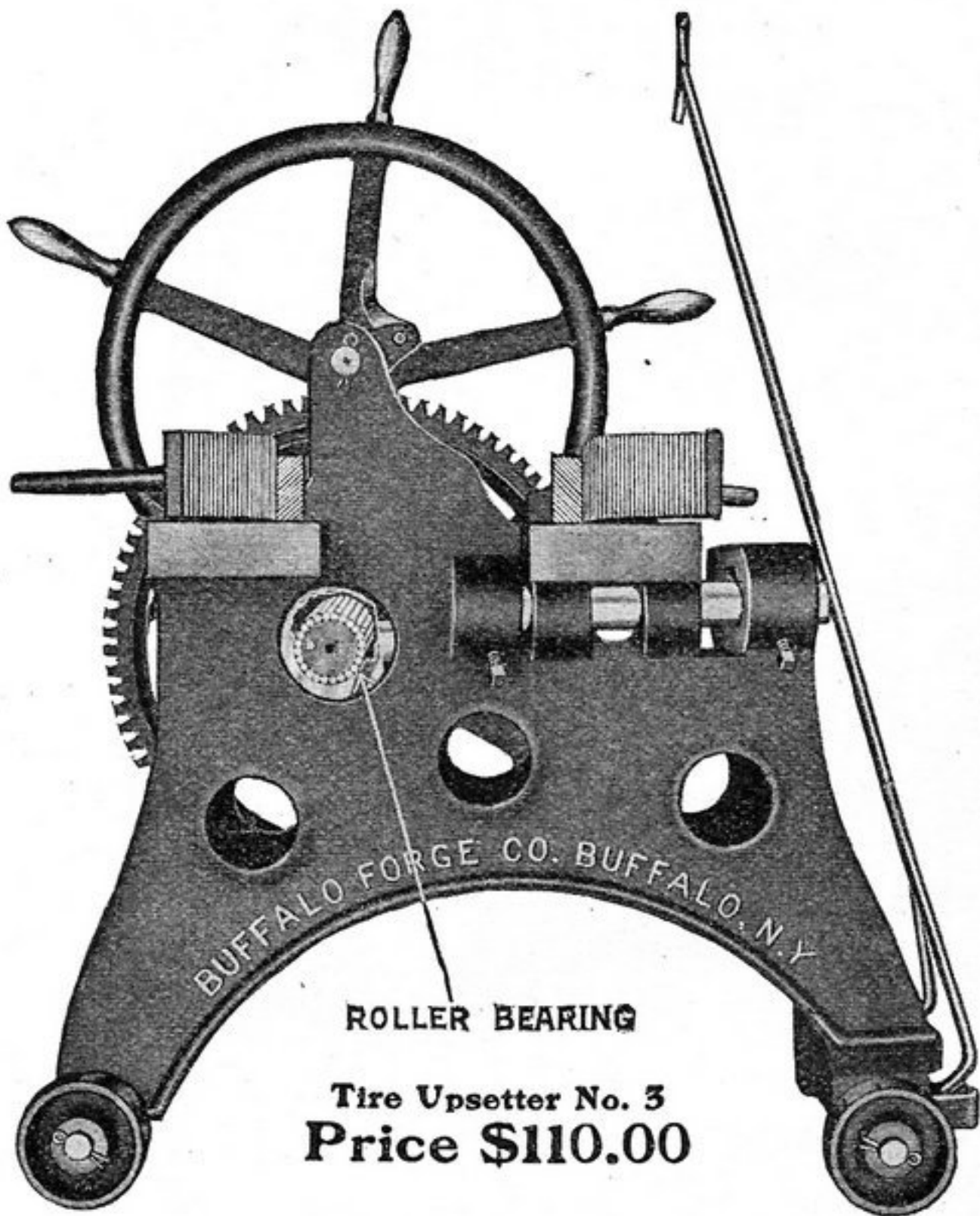
Buffalo Armor-Plate Angle Cutters

Buffalo Angle Cutters Nos. 1 and 2 are alike in every respect except that No. 1 has a single lever socket. The frame is light, compact, strong and durable. Body of tool is of armor-plate steel, whose unlimited strength gives these machines great capacity with little weight. Adapted for structural iron workers, and blacksmiths. Wherever quantities of light angle bar are used it will be found a money and time-saving tool. Knives are of the finest crucible steel, and heavy enough to stand up under continual hard service without danger of springing or breaking. They cut clean and square, leaving no ragged edges to dress with consequent loss of stock, and allowing of the most rapid and accurate work.



Buffalo Angle Cutter No. 2

No.	Capacity	Height	Weight	Price
1	1 1/2 x 1 1/2 x 1/4 in.	36 in.	150 lbs.	\$30.00
2	2 1/2 x 2 1/2 x 1/4 in.	36 in.	200 lbs.	40.00



ROLLER BEARING
Tire Upsetter No. 3
Price \$110.00

Capacity, tires 3/4 x 7 x 1 1/2 inches
Upsets and weld axles... 3/4 to 3 1/2 inches
Weights 1250 pounds

**More Buffalo Tools Made,
Sold and IN USE Now than
Any Former Year**

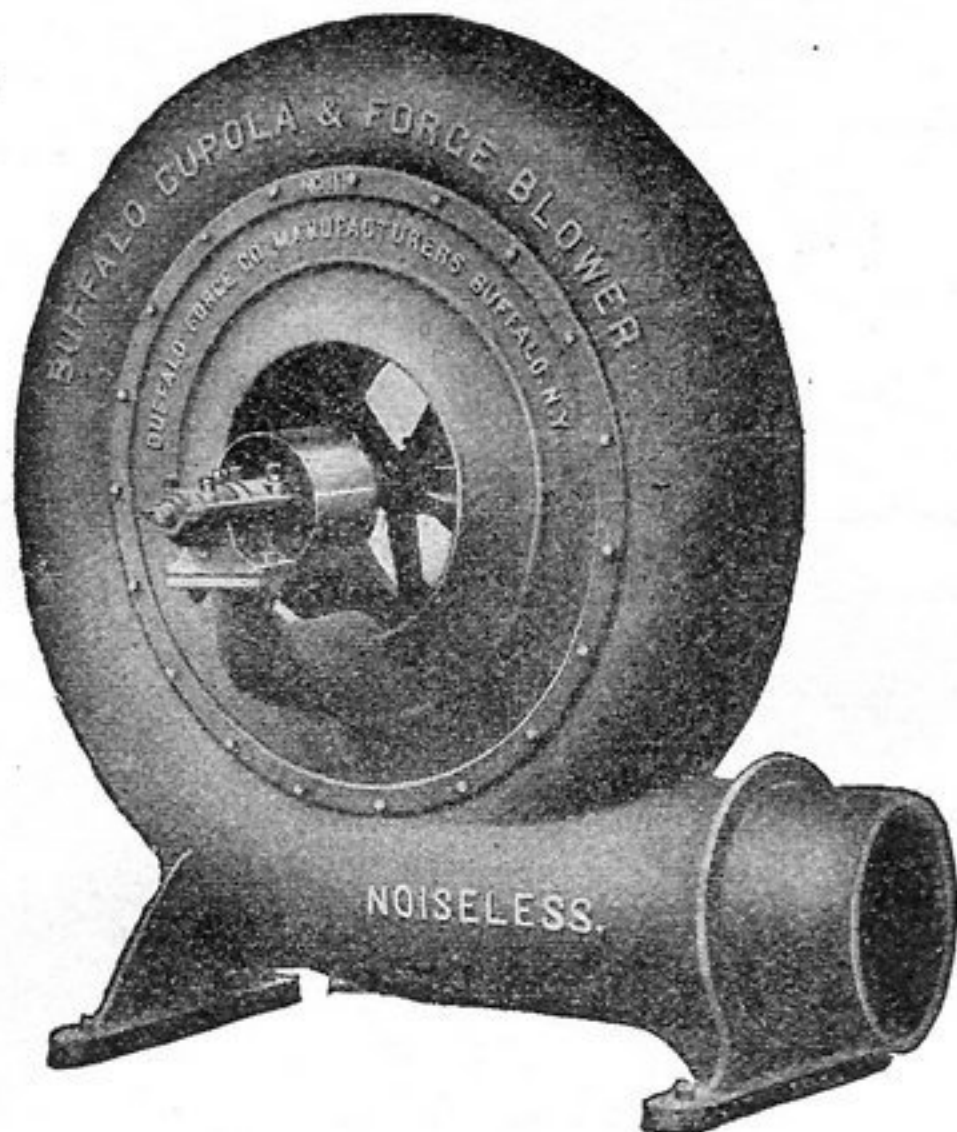
NEW BUFFALO TIRE UPSETTER No. 3

**The Roller bearings on the
Eccentric Rod remove a
Source of Friction. THIS EN-
TIRELY NEW FEATURE
LENGTHENS THE LIFE
OF THE MACHINE and
Makes it Easy to Operate.**

**All Buffalo Tools Made and
Designed from Best Results of
Thirty Years Practical
Experience**

Buffalo Steel Pressure Blowers

Buffalo Steel Pressure Blowers are designed and built especially to withstand the strains of high pressure duty. For supplying blast to cupolas, furnaces, forge fires, sand blast machines and for any work where air is to be forced for a long distance, as in pneumatic-tube systems, their utility needs no demonstration.



Size No.	Pulley		Weight		Price without Counter-shaft	Price with Counter-shaft
	Dia.	Face	Not Packed	Packed		
1	2 3/4	1 3/4	35	55	\$ 12.00	\$ 20.00
2	2 3/4	2 1/4	44	75	18.00	28.00
3	3	2 5/8	75	95	26.00	38.00
4	4	3	115	135	36.00	52.00
5	4 1/2	3	152	180	44.00	64.00
6	4 1/2	3 1/2	195	265	55.00	80.00
7	5	4 1/2	258	308	70.00	100.00
8	6	4 1/2	385	445	90.00	130.00
9	7	5	550	635	115.00	170.00
10	8	5 3/4	750	820	160.00	230.00
11	8 1/2	6 1/2	1300	1400	225.00	300.00
11 1/2	10	7	1800	1900	275.00	350.00
12	10	8	1850	1950	325.00	400.00

Dimensions in inches. Special Discharges. 10 per cent. additional.

**All Buffalo Blowers Made
and Designed from Best
Results of Thirty Years'
Practical Experience**

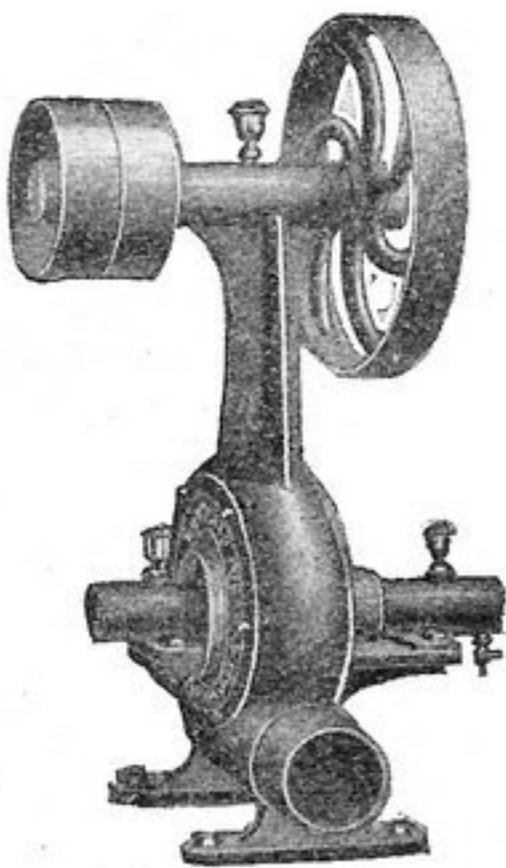
Buffalo Experimental Blowers and Exhausters

Special Steel Pressure Blowers

The Buffalo Experimental Blowers and Exhausters are made upon the same principle as Buffalo Pressure Blowers. They operate noiselessly, and yield as large a volume of air in proportion to the sizes, as the other types, but will not produce the same amount of pressure. They are intended especially for blowing fires in portable and small stationary boilers, for experimenting and various purposes where a small quantity of air, at an average pressure is desired. The No. 0 is sufficient to blow 1 forge fire; No. 1/2 is sufficient for 3 forge fires of average size.



No. 00
Experimental Blower



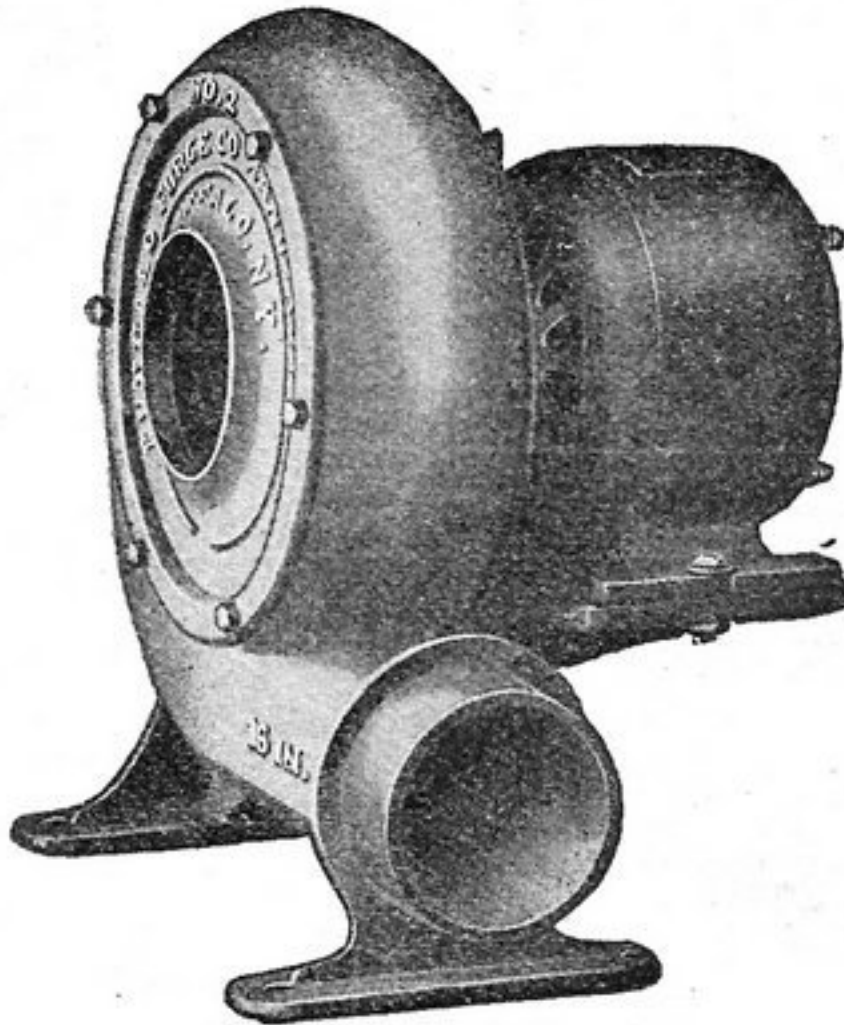
Special Steel Pressure
Blower
With Affixed Countershaft

No. 1, \$20.00
No. 2, 28.00

No.	Outside Diam. Outlet	Hgt.	Wgt	Pulleys		Price	
				Diam.	Face	Blower	Exhauster
00	2 3/4	11 in.	20 lbs.	1 1/4	1 1/4	\$ 8.00	\$2.00 net extra
0	3	15 in.	30 lbs.	1 3/4	1 3/4	10.00	
1/2	4 1/2	20 in.	45 lbs.	1 3/4	2	14.00	

Buffalo "B" Volume Blowers

ELECTRIC FORGE BLOWERS

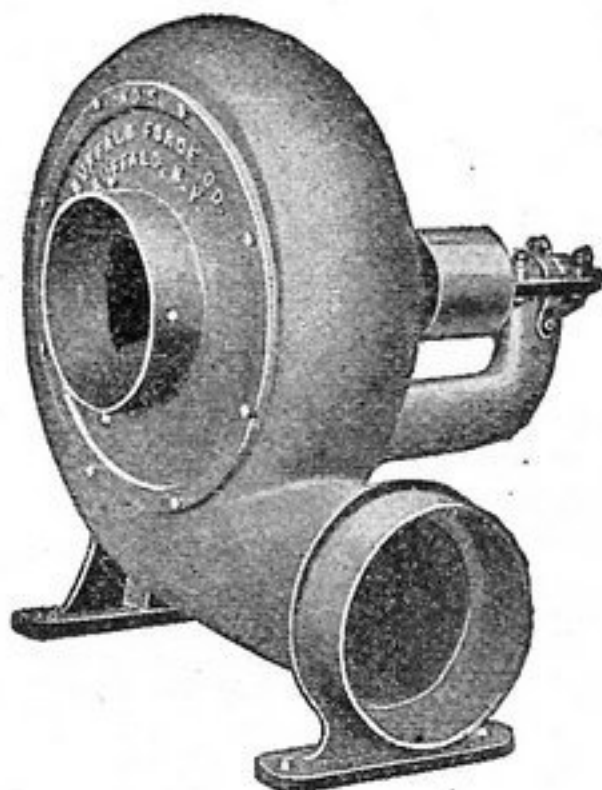


Buffalo B Volume Electric Forge Blowers

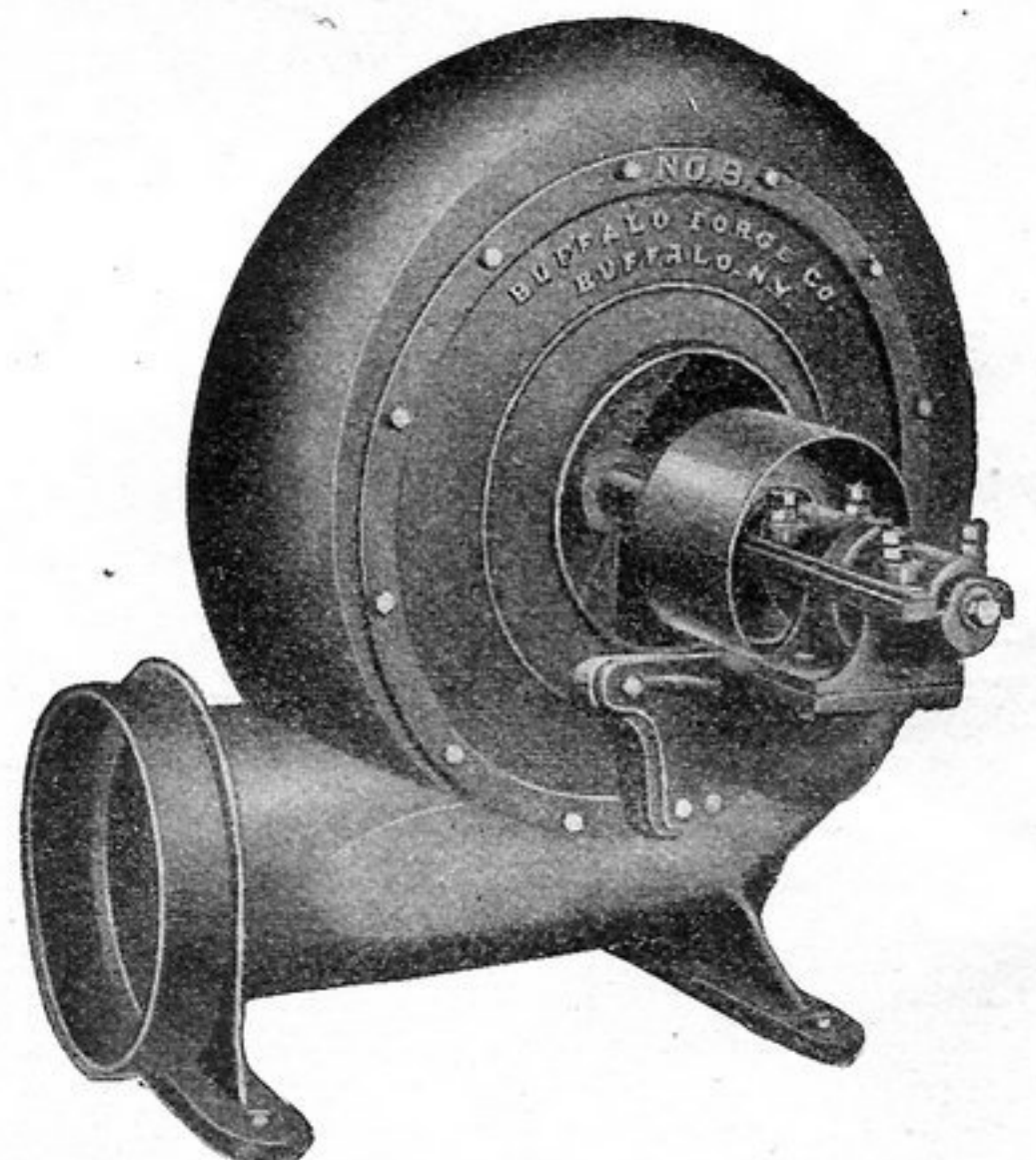
Size Blower	Voltage and Cycles	Cu. Ft. Air Per Min.	Rev. Per Min.	Shipping Weight	Air Pressure Water Column	No. Forges Will Serve	List Price
No. 1	110-220v 60 cycles	140	3400	70 lbs.	2 inches	1 M'dium Fire	\$ 56.00
No. 2	110-220v 60 cycles	250	3400	100 lbs.	3½ inches	3 Av'age 2 Large	72.00
No. 2	110-220v Direct Current	175	2500	110 lbs.	2 inches	2 Av'age Fires	64 00
No. 3	110-220v 60 cycles	475	3400	150 lbs.	5 inches	4 Av'age 3 Large	110.00
No. 3	110-220v Direct Current	410	3000	160 lbs.	4 inches	4 Av'age 3 Large	96 00

Any of above blowers up to No. 3 can be connected up to the socket of an ordinary incandescent light. The average cost of operating is less than one-fourth of a cent per hour for each fire.

When ordering motors for electric blowers state if current is alternating or direct; if alternating, give cycles or alternations and phase; also voltage of circuit under which motor is to operate. This information may be obtained from your local electric company



Right-Hand Bottom Horizontal Discharge Buffalo "B" Volume Exhauster



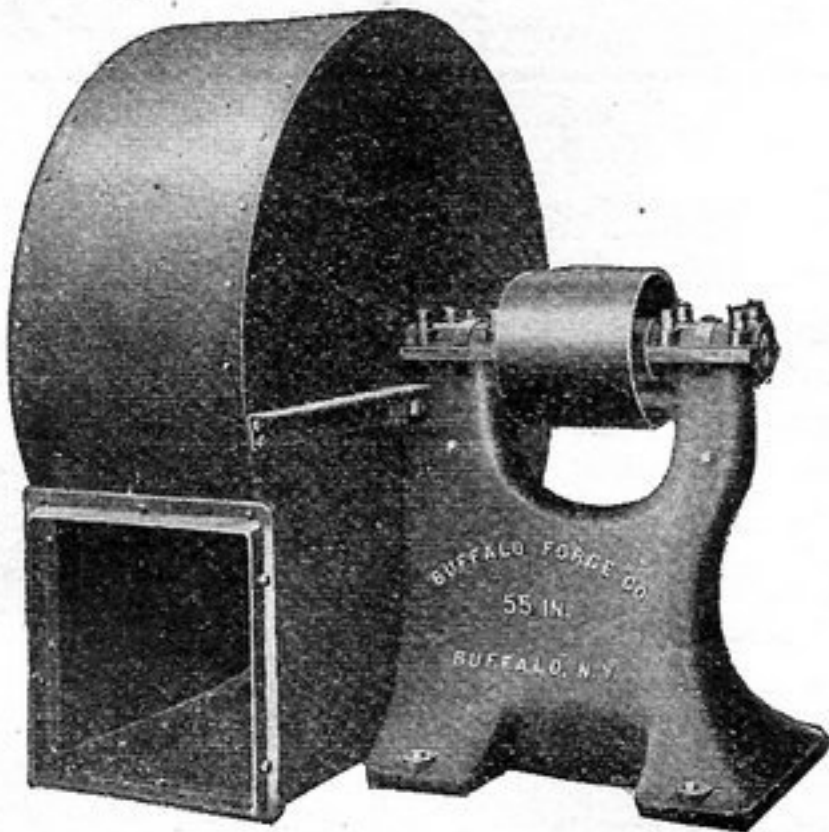
Bottom Horizontal Discharge Blower

Blowers and exhausters regularly furnished bottom horizontal discharge; special discharge ten per cent additional. The different discharges are bottom or top horizontal, up blast or down blast. Exhausters are built with an overhung wheel and a single unobstructed inlet.

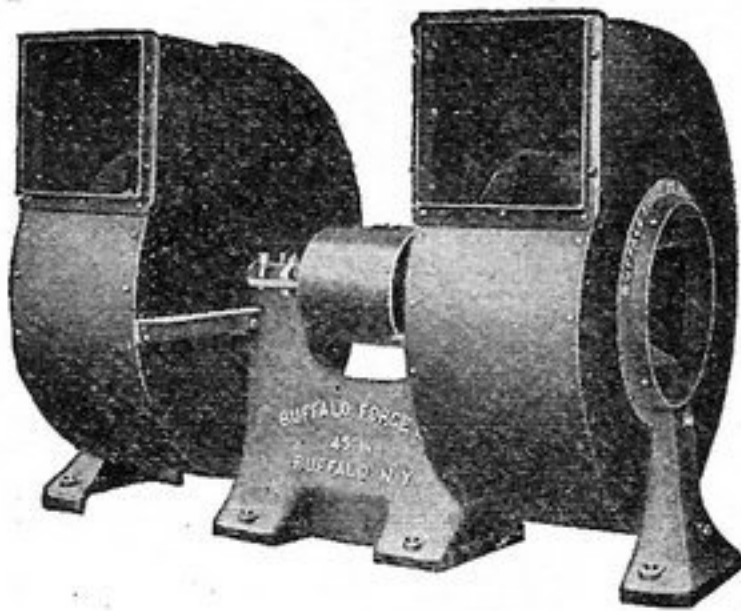
No.	Pulley		Weight	Price of Blower	Price With Bed	Price with Bed and Countershaft
	Diam.	Face				
000	2¾	2¼	47	\$ 15.00	.....	.....
1	3	2½	55	20.00	.....	.....
2	3½	2¾	95	25.00	.....	.....
3	4	3¼	155	33.00	.....	.....
4	5	4	190	44.00	.....	.....
5	5¾	4½	265	55.00	\$100.00	\$135.00
6	6½	5½	365	70.00	130.00	175.00
7	7½	6½	500	90.00	170.00	230.00
8	8½	7½	700	150.00	265.00	350.00
9	9½	8½	1050	200.00	380.00	500.00
10	12	10	1600	250.00	475.00	625.00
11	14	12	3200	350.00	550.00	700.00

Buffalo Steel-Plate Planing Mill Exhausters

Exhaust fans are frequently employed in forge shops in conjunction with the Buffalo Down-Draft System of forge construction for the purpose of withdrawing the smoke and gases. In this system all the piping, both blast and exhaust, is placed underground, being practically indestructible.



Single Fan



Double Fan

Reversible and interchangeable—can be turned to any direction of discharge in ten minutes.

Bearings extra long and double ring oiling—will never freeze on the shafts.
Most convenient, durable, and efficient on the market.

SINGLE FANS
Price List and Dimensions

Size	Width of Fan	Outside Diameter of Inlet	Outside Size of Outlet	Single Fan Pulleys		Price of Single Fans
				Diam.	Face	
30-in.	33½	11¼	9½ x 9½	6	4½	\$55.00
35-in.	36½	13¼	11¼ x 11¼	7	5½	70.00
40-in.	41½	15½	13½ x 13½	8	6	90.00
45-in.	45½	18½	15 x 15	9	6½	115.00
50-in.	48¾	19	16¼ x 16¼	10	7	150.00
55-in.	53½	20¾	18½ x 18½	11	8	185.00
60-in.	57¾	22½	19½ x 19½	11½	9	200.00
70-in.	60¼	24¼	22¼ x 22¼	12	10	250.00
80-in.	64	30½	26 x 26	14	10½	300.00

DOUBLE FANS
Price List and Dimensions

Size	Width of Fan	Outside Diameter of Inlets	Outside Size of Outlets	Double Fan Pulley		Wht.	Price of Double Fans
				Dia.	Face		
30-in.	49½	11¼	9½ x 9½	8	7	525	\$ 90.00
35-in.	55	13¼	11¼ x 11¼	9	8	725	100.00
40-in.	64½	15½	13½ x 13½	10	9	1060	130.00
45-in.	70½	18 1-16	15 x 15	11	9½	1400	170.00
50-in.	75½	19	16¼ x 16¼	12	10	1785	210.00
55-in.	81½	20¾	18½ x 18½	13	11	2300	275.00
60-in.	91	22½	19½ x 19½	14	12	2740	325.00

Buffalo Improved Blast Gates

Especially designed for opening, closing and regulating the blast in air-conveying pipes for various duties.

The frames of these gates are of heavy cast iron. The slides are of heavy gauge steel plate. Customers are offered the choice of two forms, i. e., the slide and lever types, the former being sent in the absence of specified instructions.

The size indicates outside diameter of collar of gate where the pipe slides on.

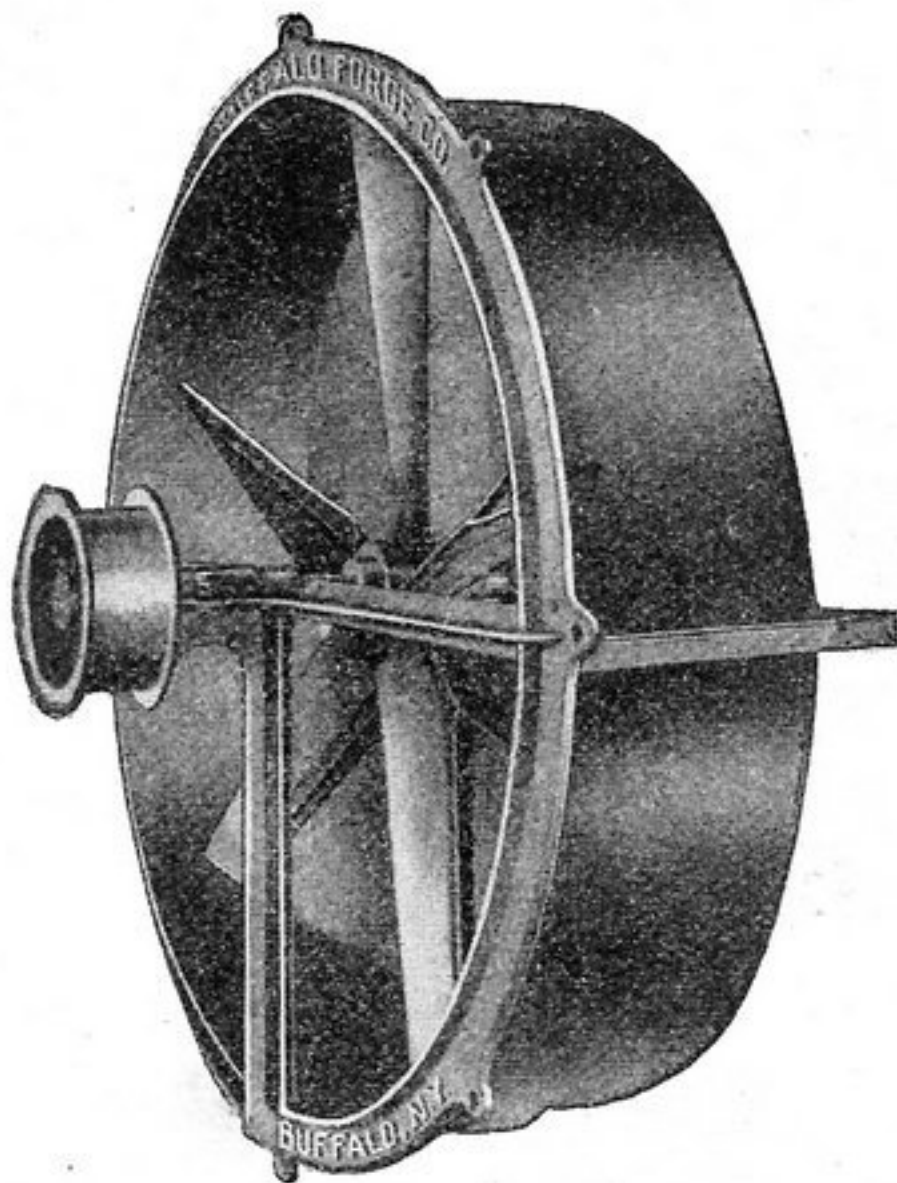


Table of Dimensions and Prices—Slide-Pattern Blast Gates

Size	Inside Diameter	Axial Length	Price	Weight in Pounds	Size	Inside Diameter	Axial Length	Price	Weight in Pounds
2	1¾	3	\$ 1.00	1½	10	9½	9	\$ 5.00	31 **
2½	2¼	3½	1.25	2	12	11½	9	6.50	36
3	2¾	4	1.50	2½	14	13½	8¾	8.00	45
4	3¾	5¼	2.00	6	16	15¼	9¾	12.00	75
5	4¾	5¾	2.25	7	18	17½	9¼	16.00	80
6	5¾	7	2.50	11	20	19¼	8¾	18.00	95
8	7¾	8¼	3.50	25	24	23½	9¾	21.00	120

Buffalo Disk Wheels

Pulley and Electric

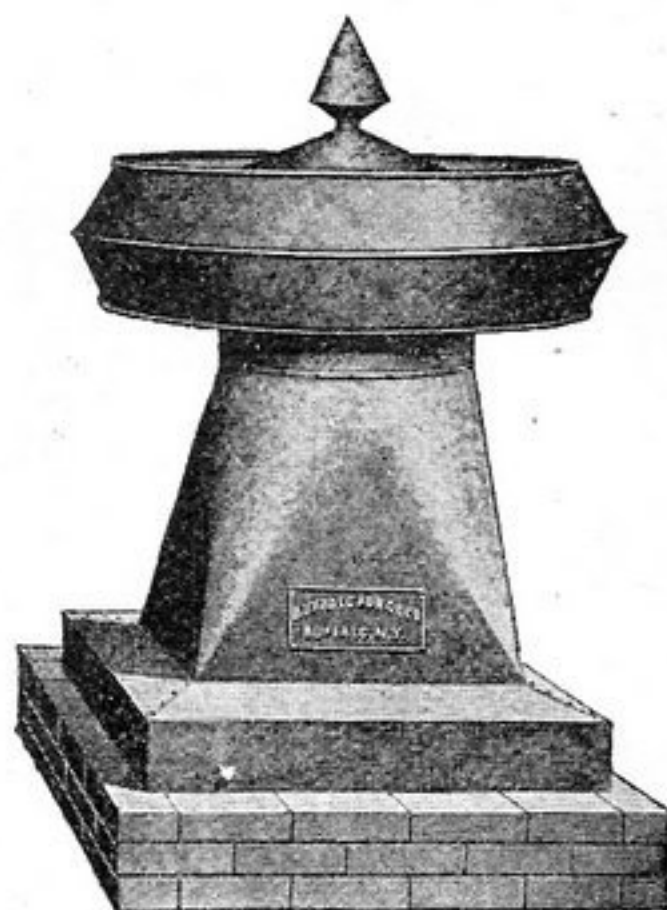


Ideal System for Ventilating Factories, Shops, Offices, Restaurants, Laundries and Private Residences

Standard Pulley Disk Wheels

Size Wheel	Normal Speed	Cubic Feet Air per Min.	Horse Power	List Price
18	1000	2200	0.10	\$40.00
24	800	4000	0.25	50.00
30	650	6200	0.50	65.00
36	525	8800	0.63	85.00
42	450	12000	0.90	110.00
48	400	18000	1.15	125.00
54	350	21000	1.50	175.00
60	320	25000	1.90	250.00
72	265	36000	2.75	300.00
84	230	50000	3.60	350.00

Buffalo Improved Ventilators



Base with Outside Flange

Improved ventilation. Impure air, hot air, smoke, steam or gases rapidly and constantly withdrawn. Ventilator provides free and unobstructed outlet. Effectually prevents any backward flow due to wind or other causes. Perfectly noiseless in operation. Storm and rain-proof. First cost moderate. No other expense.



Base with Inside Flange

Designs as well as prices of ventilators for special requirements may be had on application. State plainly the special requirements of the ventilator.

Price List and Table of Dimensions of Buffalo Improved Ventilators



Buffalo Standard Ventilator

Diam. of Neck	Smallest Cross-Section	Gauge of Iron	Weight	Price	Diam. of Neck	Smallest Cross-Section	Gauge of Iron	Weight	Price
12 in.	113 sq. in.	26	14 lbs	\$6.75	32 in.	804 sq. in.	22	130 lbs.	\$80.00
14 "	153 "	26	20 "	13.00	34 "	968 "	22	140 "	100.00
16 "	201 "	26	28 "	20.00	36 "	1017 "	22	150 "	120.00
18 "	255 "	24	35 "	27.00	40 "	1257 "	22	210 "	180.00
20 "	314 "	24	50 "	33.00	44 "	1520 "	22	225 "	200.00
22 "	380 "	24	60 "	36.00	48 "	1809 "	20	295 "	240.00
24 "	453 "	24	75 "	40.00	54 "	2290 "	20	455 "	300.00
26 "	530 "	24	85 "	50.00	60 "	2827 "	18	610 "	360.00
28 "	615 "	24	100 "	56.00	66 "	3421 "	18	765 "	420.00
30 "	707 "	24	115 "	65.00	72 "	4071 "	16	920 "	480.00

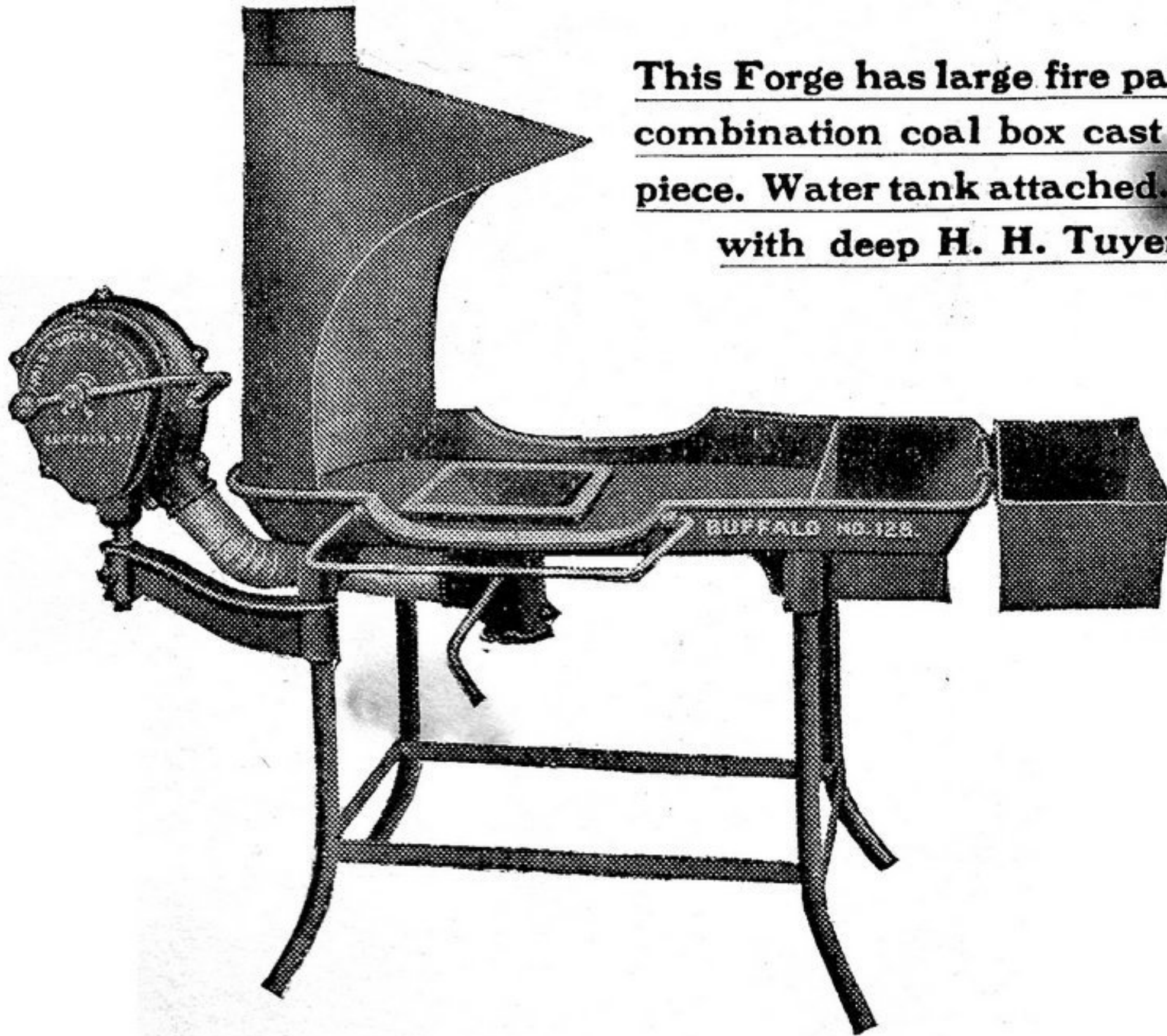
Price of the base is always extra, according to the numbers and size. Above prices are for galvanized iron.

Buffalo No. 128

The Wagon Makers' Forge

Guaranteed Ten Years

Guaranteed Noiseless



This Forge has large fire pan with combination coal box cast in one piece. Water tank attached. Made with deep H. H. Tuyere.

Price \$60.00 Without Tank \$55.00

Fire Pan 32x56 Inches. Weight 355 Lbs.

Don't be deceived by dealers' arguments, because some other machines pay them more profit. Insist on **BUFFALO** and at the right price, or send to us direct.

Buffalo Forge No. 625



America's Best—The World's Standard

Scott-Miller Co., Indianapolis, U. S. A.